# REPORT ON THE 1985 DISCHARGES FROM MUNICIPAL WASTEWATER TREATMENT FACILITIES IN ONTARIO

Ontario
Ministry of the Environment

DECEMBER 1986

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## FOREWORD

The Ministry of the Environment is concerned with the protection and enhancement of the natural environment. The release of untreated or partially treated sanitary wastes to a lake or river may render the watercourse, particularly in the immediate discharge area, unusable for many purposes. Since such discharges can threaten public health and can disrupt plant and animal life cycles, the adequate treatment of wastes to achieve satisfactory effluent qualities is a major concern of this Ministry.

In order to meet the goals and objectives of good water quality management, the Ministry inspects and regulates all communal wastewater facilities; monitoring their performance programs. The administration of these services and programs is carried out on a regional basis. To complement the sampling programs and the various water quality management programs, the Water and Wastewater Management Section of the Water Resources Branch, in co-operation with our Regional Offices, has produced this publication to provide a comprehensive assessment and listing of all municipal wastewater treatment facilities operating in Ontario.

The 1985 report has been expanded to include all (403) municipal wastewater treatment facilities in the Province (previous reports only included the 100 or so major facilities, 1 mgd or larger, in the Great Lakes Basin). The changes also include a discussion on audit and inspection procedures as well as the need for tighter controls regarding monthly assessment. The topic of hazardous contaminants is also addressed.

## ABBREVIATIONS

| | |
|---|---|
| MOE | Ministry of the Environment (Ontario) |
| MISA | Municipal Industrial Strategy for Abatement |
| BAT | Best available technology |
| $10^3m^3$/day | Thousand cubic metres per day |
| C of A | Certificate of Approval |
| mIgd | Million Imperial gallons per day |
| BOD | Biochemical Oxygen Demand |
| SS | Suspended Solids |
| TP | Total Phosphorus |
| mg/L | Milligrams per litre |

# REPORT ON THE 1985 DISCHARGES FROM MUNICIPAL WASTEWATER TREATMENT FACILITIES IN ONTARIO

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# REPORT ON THE 1985 DISCHARGES FROM MUNICIPAL WASTEWATER TREATMENT FACILITIES IN ONTARIO

## 1.0 INTRODUCTION

The adequate treatment of sanitary wastewater has been a high priority of the Ministry of the Environment (formerly the Ontario Water Resources Commission) since its inception in 1957. Since that time more than $5 billion has been spent by the three levels of government on associated wastewater treatment works.

In 1985, sanitary wastes from approximately 7.0 million people (82% of Ontario's population) were collected and treated at 403 communal wastewater treatment systems throughout the Province. Sanitary wastes from the remaining population, located in non urban areas, are for the most part treated in private systems (septic tank/tile field systems) serving individual residences.

The 403 municipal wastewater treatment facilities in the province have a total hydraulic capacity of 5968 x $10^3 m^3$/day (1313 mlgd) and treat on the average a daily flow of 4939 x $10^3 m^3$/day (1086 mlgd). These facilities remove an estimated 325,000 tonnes of Suspended Solids (and BOD) and 9,000 tonnes of Phosphorus annually.

Wastewater facilities which treat sanitary wastes from communities are either operated by the municipality or by the Ministry of the Environment. For the most part, the larger facilities are owned and operated by the municipality (ies) they serve. The Ministry operates a number of facilities (mainly on behalf of smaller municipalities) throughout the province.

Municipally operated facilities numbered 171 in 1985 (actual capacity 4540 x $10^3 m^3$/day) and treated a total of 3838 x $10^3 m^3$/day (844 mlgd) while Ministry operated facilities numbered 232 (actual capacity 1428 x $10^3 m^3$/day) but only treated 1,100 x $10^3 m^3$/day (242 mlgd). Both municipally operated and Ministry operated sewage treatment facilities will be referred to as municipal wastewater treatment facilities for the remainder of the report.

## 2.0 COMPLIANCE, NON COMPLIANCE AND ABATEMENT STATUS

Municipal wastewater treatment facilities discharging to surface waters throughout the province must meet effluent requirements specified by the Ministry of the Environment. Such requirements may be site specific as indicated in the Certificate of Approval or general as outlined in MOE Policy 08-01 "Levels of Treatment of Municipal and Private Sewage Treatment Works Discharging to Surface Waters" and MOE Policy 08-04 "Provision and Operation of Phosphorus Removal Facilities at Municipal, Institutional and Private Sewage Treatment Works."

For the purpose of this report, the wastewater treatment facilities are evaluated on the general operating requirements (MOE Policy 08-01 and 08-04) based on annual average values for the conventional parameters: BOD, Suspended Solids, and Total Phosphorus. The TUMMIS computer program, which will be operational for the 1986 assessment, will be capable of evaluating all parameters with general or site specific effluent requirements.

**ANNUAL AVERAGE EFFLUENT REQUIREMENTS**
(Based on Policies 08-01 and 08-04)

| Type of Treatment | PARAMETER | | |
|---|---|---|---|
| | BOD | Suspended Solids | Total Phosphorus |
| PRIMARY: | | | |
| without P removal | 30 (% removal) | 50 (% removal) | - |
| with P removal | 50 (% removal) | 70 (% removal) | 1.0 mg/L |
| SECONDARY: | | | |
| without P removal | 25 mg/L | 25 mg/L | - |
| with P removal | 25 mg/L | 25 mg/L | 1.0 mg/L |
| LAGOONS: | | | |
| without P removal | 30 mg/L | 40 mg/L | - |
| continuous P removal | 30 mg/L | 40 mg/L | 1.0 mg/L |
| batch P removal | 25 mg/L | 25 mg/L | 1.0 mg/L |

Note: 1. Communal Septic Tank evaluation based on Primary Treatment requirements.
2. % removal and effluent concentrations shown above are annual average values.

## 2.1 AUDIT, SAMPLING AND INSPECTIONS

The UMIS (Utility Monitoring and Information System) and TUMMIS (Total Utility Monitoring and Management Information System) are the two computer information systems utilized in the storage and audit of data from wastewater treatment facilities throughout the Province. UMIS is used to store the operating data while TUMMIS is used to audit the operating data against effluent requirements/removal efficiencies specified in Policy 08-01 or in the C of A's for each facility. All data are submitted by the operating authority.

Under the requirements outlined in MOE policy 08-06 "Policy to Govern Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only)" wastewater treatment facilities are required to provide a minimum of one sample per month (24 hour composite) of the influent and effluent waste streams for analysis at a MOE laboratory. Many of the municipally operated facilities supplement this minimum requirement by doing daily or weekly analysis at their own laboratory. This information, which includes data on flow and influent/effluent concentrations for the conventional parameters, is sent to this Ministry on a monthly basis and stored in the UMIS computer file.

Facilities operated by the MOE submit samples to MOE laboratories on a minimum basis of twice monthly (every 13 days) for mechanical plants and as necessary during discharge periods for lagoon type facilities. In-plant analyses are also performed on a regular basis, the intensity being dependent upon the size and operational complexities. The monthly information submitted to the UMIS file from MOE operated facilities includes flow, influent/effluent concentrations for the conventional parameters plus operational information pertaining to unit process performance and chemical usage.

Inspections carried out at municipally operated wastewater treatment systems throughout the Province fall under the responsibility and jurisdiction of the regional Operations Division of this Ministry. For the most part all municipally operated wastewater treatment facilities are scheduled for inspection on an annual basis. During these site visits, MOE staff will visually inspect the facility and discuss operational procedures with the operating authorities (effluent quality/removal efficiency information available through UMIS and TUMMIS are used by MOE district staff to assess operation). The operating authority is formally made aware of any deficiencies by way of inspection reports. If warranted, follow up inspections will be scheduled until the identified problems are corrected. The ultimate responsibility for implementing remedial programs is that of the operating authority. Financial commitment by the municipality is the major factor affecting the time required to implement remedial programs and meet effluent requirements.

At Ministry operated facilities operating assessment is continually being carried out by regional staff responsible for these facilities. The UMIS and TUMMIS computer programs are used to store and audit data. Daily operations are controlled by on-site staff employed by the Ministry. Major capital improvements must be approved by municipal authorities. Remedial programs may be prolonged because of funding problems.

## 2.2 COMPLIANCE

The majority (70%) of municipal wastewater treatment facilities met the general operating requirements of the MOE. These 284 facilities treat the wastes from approximately 54% of the total population (51% of the total sewage flow) served by communal facilities in the province.

## 2.3 NON-COMPLIANCE AND REMEDIAL MEASURES

Of concern to this Ministry, are the facilities which do not meet the operating requirements identified in Section 2.0. In 1985 there were 99 facilities which failed to meet, on an annual average basis, at least one of the conventional parameters (BOD, Suspended Solids, Total Phosphorus). Of this number, 17 were only marginally out of compliance (marginal non-compliance means less than 1 mg/L above the requirements for BOD and Suspended Solids and less than 0.1 mg/L above the requirement for Total Phosphorus).

Municipal wastewater facilities not meeting effluent requirements in 1985 are listed alphabetically by Region in Appendix A. The municipal name, type of treatment, and non-compliance parameter (and concentration) are shown along with the remedial programs (O-operational, E-expansion of facilities, M-modifications to equipment or collection system) and anticipated compliance date. For Primary Treatment systems (P) the % removal is shown below the non-compliance concentration. Facilities operated by the MOE are highlighted with an asterisk (*).

While non-compliance in any one year is undesirable, failure for two or more successive years indicates that immediate remedial action should be implemented. Table I lists by Region, municipal wastewater treatment facilities failing one or more conventional parameters for the last 3 years (1983, 1984 and 1985). Over the 3 year period, 32 continually failed one or more parameters.

Some facilities fail because of operational inadequacies, some require modifications to process equipment or the collection system, and others require major capital expansion. Facilities requiring capital expansions or modifications usually require a longer period of time to complete. The province provides up-front grants for 15% of the eligible capital expenditures for larger municipalities. Smaller municipalities may be eligible for high cost grants (up to 85% of eligible costs) to assist in major expansions.

# TABLE 1
## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING ANNUAL EFFLUENT REQUIREMENTS IN 1983, 1984 and 1985

### LEGEND

MUNICIPAL CLASSIFICATION

| | |
|---|---|
| RM | Regional Municipality |
| C | City |
| T | Town |
| V | Village |
| ST | Separated Town |
| Twp. | Township |
| UM | Unorganized Municipality |
| DAB | Development Area Board |

OTHER

| | |
|---|---|
| * | MOE operated |
| m | marginal non compliance |

TABLE I
MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING
ANNUAL EFFLUENT REQUIREMENTS IN 1983, 1984 and 1985

| FACILITIES | 1983 | | | 1984 | | | 1985 | | |
|---|---|---|---|---|---|---|---|---|---|
| Southwest | BOD | SS | TP | BOD | SS | TP | BOD | SS | TP |
| Alvinston (V)* | | | x | | | x | | | x |
| Amherstburg (T) | x | x | x | x | x | x | x | x | x |
| Blenheim (T)* | | x | | | x | | | x | |
| East Zorra (Twp) (Tavistock)* | x | x | x | x | | | x | x | |
| Exeter (T)* | | x | x | | x | x | | x | x |
| Forest (T)* | x | x | | | x | | x | x | |
| Glencoe (V)* | | x | | | x | x | | m | |
| Kingsville (T) | x | x | x | | | x | | x | |
| Moore (Twp) (Courtright)* | | | x | | | x | | | m |
| Point Edward (V)* | | | x | | | x | | | x |
| Ridgetown (T)* | x | x | x | x | x | | | x | |
| Strathroy (T) | | | x | | | x | | | x |
| Tilbury (T) | | | x | | | x | | | x |
| West Lorne (V)* | | x | | | x | | | x | |

* MOE operated
m: Marginal non-compliance

TABLE I (Cont'd)
MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING
ANNUAL EFFLUENT REQUIREMENTS IN 1983, 1984 and 1985

| FACILITIES | 1983 | | | 1984 | | | 1985 | | |
|---|---|---|---|---|---|---|---|---|---|
| West Central Region | BOD | SS | TP | BOD | SS | TP | BOD | SS | TP |
| Arthur (V)* | | x | | | | x | | x | |
| Hamilton (C) | | | x | | | x | | | x |
| Nanticoke (T) (Jarvis)* | | x | | | x | | x | x | |
| Palmerston (T)* | x | x | | x | x | | x | x | |
| Woolwich (Twp) (Elmira)* | | x | x | x | x | x | x | x | x |

* MOE operated
m: Marginal non-compliance

TABLE I (Cont'd)
MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING
ANNUAL EFFLUENT REQUIREMENTS IN 1983, 1984 and 1985

| FACILITIES | 1983 | | | 1984 | | | 1985 | | |
|---|---|---|---|---|---|---|---|---|---|
| Central Region | BOD | SS | TP | BOD | SS | TP | BOD | SS | TP |
| Metro Toronto (Humber) | | | x | | x | x | | | m |
| Muskoka Lakes (Twp) (Bala) | | | x | | x | x | x | x | m |

* MOE operated
m: Marginal non-compliance

TABLE I (Cont'd)
MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING
ANNUAL EFFLUENT REQUIREMENTS IN 1983, 1984 and 1985

| FACILITIES | 1983 | | | 1984 | | | 1985 | | |
|---|---|---|---|---|---|---|---|---|---|
| Northeast Region | BOD | SS | TP | BOD | SS | | BOD | SS | TP |
| Cochrane (T) | x | x | | x | x | | | x | |
| Haileybury (T)* (Lake Temiskaming Old) | x | x | | | m | | x | x | |
| Kapuskasing (T) (Brunetville) | x | | | | x | | m | x | |
| North Bay (C)* | | x | x | | | x | | x | x |

* MOE operated
m: Marginal non-compliance

TABLE I (Cont'd)
MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING
ANNUAL EFFLUENT REQUIREMENTS IN 1983, 1984 and 1985

| FACILITIES | 1983 | | | 1984 | | | 1985 | | |
|---|---|---|---|---|---|---|---|---|---|
| Southeast Region | BOD | SS | TP | BOD | SS | TP | BOD | SS | TP |
| Almonte (T)* | | | x | | | x | | m | x |
| Carleton Place (T)* | | x | | | x | x | | x | x |
| Cornwall (C)* | x | x | | x | | | x | | |
| Ernestown (Twp) (Amherstview)* | | x | | x | x | | | x | |
| Kemptville (T) | | | x | | | x | | | x |
| Napanee (T) | | | x | | | x | | | x |
| Westport (V)* | | x | | | x | x | | m | |

* MOE operated
m: Marginal non-compliance

Facilities with operating problems however should be able to correct these differences within a reasonable amount of time once the problem is identified. The Ministry is currently developing a program to assist municipalities to identify problems and develop abatement schedules at non-compliance facilities.

Table II lists for the years 1981 through to and including 1985 the total number of municipal wastewater treatment facilities in the Province along with the numbers not meeting effluent requirements.

**TABLE II**
**ANNUAL COMPLIANCE SUMMARY FOR**
**MUNICIPAL WASTEWATER TREATMENT FACILITIES (1981-1985)**

| Year | Total No. of Facilities | Facilities Not Meeting Effluent Requirements |
|---|---|---|
| 1981 | 389 | 94 |
| 1982 | 392 | 107 |
| 1983 | 391 | 100 |
| 1984 | 400 | 89 |
| 1985 | 403 | 99 |

The above table shows that over the past five years the number of facilities not meeting effluent requirements ranged between 89 and 107. Table I indicates that about 30% of the facilities have consistently failed over the last three years. This would indicate that the remaining 70% of the non-compliance facilities fail on a random basis.

## 2.4 INSUFFICIENT DATA

Municipal wastewater treatment facilities are required to submit influent and effluent samples on a monthly basis to be analysed at MOE laboratories. This information is used to assess compliance.

In 1985, twenty (20) operating authorities failed to provide adequate information to assess effluent quality. These are listed in Table III. It should also be pointed out that 16 other facilities in the Province did not discharge to surface waters in 1985. Most of these are exfiltration facilities or lagoons that did not require discharge during the year. These facilities are listed in Table IV.

## TABLE III
## MUNICIPAL WASTEWATER TREATMENT FACILITIES WITH INSUFFICIENT DATA TO ASSESS COMPLIANCE FOR 1985

SOUTHWEST REGION

Oil Springs (V)*
Port Burwell (V)* (Start up April 1985)

WEST CENTRAL REGION

Brantford (Twp) - Cainsville
Mount Forest (T)

CENTRAL REGION

Georgina (Twp) - Keswick (Start up September 1985)

SOUTHEAST REGION

Cornwall (Twp) - Long Sault
Iroquois (V)
Pembroke (C)

NORTHEAST REGION

Black River Matheson (Twp) - Holtyre
Black River Matheson (Twp) - Holtyre Ross
Chapleau (T) (to be phased out in 1986 - replaced with Lagoon)
Haileybury - New (T)* (start up Nov. 1985)
Iroquois Falls (T) - Porquis
Larder Lake (Twp) (no access to effluent)
Michipicoten (Twp) - Wawa
Opasatika (Twp)* - Opasatika
Temagami (Twp)* - Temagami
Val Rita - Harty (Twp)* - Harty

NORTHWEST REGION

Baird (Twp)* - Madsen
Golden (Twp) - Balmertown - Cochenour (communal septic tank to be phased out in 1986)

* MOE operated

## TABLE IV
## MUNICIPAL WASTEWATER TREATMENT FACILITIES WITH NO DISCHARGE TO SURFACE WATERS IN 1985

| | |
|---|---|
| **SOUTHWEST REGION** | |
| Dover (Twp)* - Mitchell's Bay | (No discharge in 1985) |
| St. Edmunds (Twp) | (Exfiltration) |
| **WEST CENTRAL REGION** | |
| Brantford (Twp) - Airport | (Communal Septic Tank - Tile Field) |
| Port Colborne (C) - West | (Standby Facility) |
| Nanticoke (C)* - Townsend | (No discharge in 1985) |
| **CENTRAL REGION** | |
| Beeton (V)* | (Exfiltration) |
| Bicroft (Twp) - Cardiff | (Exfiltration) |
| Brock (Twp) - Beaverton R.1 | (Exfiltration) |
| Wasaga Beach (T)* | (Exfiltration) |
| **SOUTHEAST REGION** | |
| Russell (Twp)* - Russell | (No discharge in 1985) |
| St. Isidore de Prescott (V)* | (No discharge in 1985) |
| **NORTHWEST REGION** | |
| Beardmore (Twp)* - Beardmore | (Exfiltration) |
| Caramat (UM) | (Exfiltration) |
| Golden (Twp)* - Cochenour | (New Lagoon - No discharge in 1985) |
| Terrace Bay (Twp) | (Exfiltration) |
| Terrace Bay (Twp) | (Mechanical Plant to Exfiltration Lagoon) |

* MOE operated

## 3.0 FUTURE DIRECTION

The previous section outlined the degree to which wastewater treatment facilities were able to meet/not meet Ontario's effluent requirements. In contrast, this section identifies deficiencies in existing programs/policies and where new or improved requirements are needed for operation of wastewater facilities. The sub-sections that follow discuss the need for enhanced sampling programs and tigher operating controls for monthly assessment purposes and the Province's future direction for control of hazardous contaminants in wastewater effluents.

### 3.1 MONTHLY COMPLIANCE REVIEW

Effluent compliance for municipal wastewater treatment facilities are for the most part, based on annual average concentrations for conventional parameters (BOD, Suspended Solids and Total Phosphorus). In addition, through Certificates of Approval, site specific parameters and operating requirements have been identified for facilities discharging to limited receivers (all new and expanded facilities now require C of A's prior to construction/operation). Future effluent requirements may well be limited to monthly, weekly or even daily values not to be exceeded.

While the existing Provincial effluent requirement for Total Phosphorus is 1.0 mg/L on an annual average basis, the revised Canada-United States Agreement on Great Lakes Water Quality states that phosphorus values in the effluent of municipal wastewater treatment facilities are "not to exceed 1.0 mg/L (on a monthly average basis)". To this end, phosphorus concentrations for 1985 were evaluated on a monthly basis in order to assess the magnitude of non-compliance under the terms of the Canada-United States Agreement. A total of 250 facilities were assessed; 181 were continuous discharge facilities and 69 were seasonal discharge facilities. These include all facilities requiring phosphorus removal (mechanical plants and lagoons).

Figure I indicates the frequency of monthly exceedences for municipal wastewater treatment facilities discharging to surface waters. Since all facilities did not submit 12 months of data, the exceedences in Figure 1 are expressed as a percent of the number of months of data submitted. It can be seen from Figure I that 116 or 64% of the continuous discharge facilities and 16 or 23% of the seasonal discharge facilities could not meet the revised phosphorus effluent requirements. This represents approximately 53% (132) of the 250 STP's requiring phosphorus removal. On an annual average basis, only 55 facilities failed to meet the phosphorus requirements.

Of the 132 facilities failing the monthly requirement, 62 are major facilities (1.0 mIgd or greater) located within the Great Lake Drainage Basin and relevant to the Canada-United States Agreement.

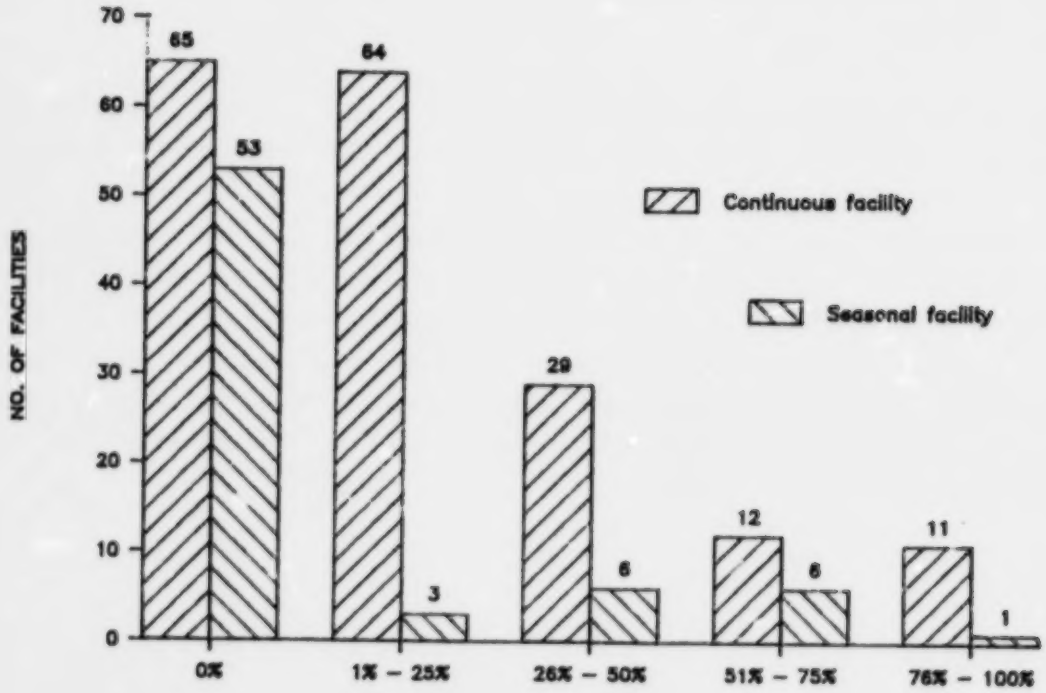
In order to address Ontario's commitments to the revised Canada-U.S. Agreement, the Ministry initiated a research study in late 1985 to develop the most cost-effective strategy of phosphorus management for municipal wastewater treatment facilities. The study will examine various alternatives for controlling phosphorus loads to Lake Ontario and Lake Erie and will include recommendations for optimal operations of 3 selected facilities to meet the monthly phosphorus requirement. The $210K study which is being funded under the Canada-Ontario Agreement is scheduled for completion in 1987. Further studies will be needed at the remaining facilities not yet in compliance.

## 3.2 HAZARDOUS CONTAMINANTS

The concern about hazardous contaminants over the last few years has steadily increased. Some studies have been carried out to identify the occurrence of priority organic compounds entering and leaving municipal wastewater treatment facilities.

To address this concern, the Province released in June 1986 a White paper entitled "Municipal-Industrial Strategy for Abatement (MISA)." The primary thrust of this program is to reduce the flow of toxic chemicals into the waterways from both municipal and industrial sources. This will be achieved by developing effluent limits based on best available technology (BAT). More stringent requirements may be

FIGURE 1
1985 SUMMARY OF TOTAL PHOSPHORUS DISCHARGE
EXCEEDENCES ON A MONTHLY BASIS FOR MUNICIPAL WASTEWATER
TREATMENT FACILITIES REQUIRING PHOSPHORUS REMOVAL




$$\frac{(N^{\circ} \text{ of Monthly Exceedences})}{(N^{\circ} \text{ of Monthly Observations})} \times 100$$

imposed if water quality impacts indicate the need. Municipalities will be clearly informed of the requirements for effluent quality, sampling and analysis, etc. by way of regulations. The MISA program will also be evaluating the need for a stringent sewer-use control program. Economic impacts of proposed alternatives will be assessed and the most effective solution will be selected for implementation.

The municipal phase of the MISA program includes an intensive sampling study whereby 40 municipal wastewater treatment facilities will be sampled (influent, effluent, sludge) and analysed for over 180 parameters. The list of chemical contaminants which include conventionals, metals, dioxins, PCBs, pesticides, polyaromatic hydrocarbons and volatile organics is included in Appendix C. The 40 facilities are located in:

| | | |
|---|---|---|
| Amherstburg | Kingston Twp.* | Pickering |
| Brantford* | Lindsay | Point Edward* |
| Burlington | London (2) | Sarnia |
| Chatham | Maidstone Twp. (Belle River)* | Sault Ste. Marie (2)* |
| Cornwall* | Mississauga (2)* | Sudbury |
| Moore Twp. (Corunna)* | Niagara-on-the-Lake | Thunder Bay |
| Grimsby | Niagara Falls | Toronto (Metropolitan 4) |
| Guelph | Oakville | Wallaceburg* |
| Hamilton | Ottawa | Waterloo* |
| Kitchener* | Paris* | Whitby |
| Kingston | Peterborough | Windsor (2) |

(* MOE operated)

The 40 plants to be studied include 11 plants currently being investigated by an Ontario-Canada study on the Upper Great Lakes-Connecting Channels. Data from that investigation will be used in the MISA study.

To support the study, municipalities will prepare, with Ministry assistance, a computerized inventory of industries discharging into sewer systems.

The results will be used to establish MISA regulations to control hazardous contaminants discharges from municipal wastewater treatment facilities. Regulations will be developed for effluent monitoring by September 1988 and for effluent discharge limits by December 1989.

In addition, the Ministry is developing a sewer-use control program to be ready by 1989, the year municipalities will be required to comply with BAT limits. To develop the program that best meets Ontario's needs, sewer-use control alternatives and pre-treatment practices in other countries, particularly the United States, but also Japan and European countries, will be reviewed and evaluated.

A study to determine if sewer surcharges are effective in prompting industries to implement waste water pre-treatment and process changes which reduce or eliminate toxic wastes before they go into the sewer systems will also be undertaken.

## 4.0 MUNICIPAL WATERWATER TREATMENT LISTINGS AND OPERATING DATA

At the end of 1985, there were 403 municipal wastewater treatment facilities in Ontario with a combined total capacity of 5968 x $10^3$ $m^3$/day (thousand cubic metres per day) serving close to 7 million people. Table V summarizes these facilities by treatment type, operating agency and total capacity.

The delivery of programs and services of this Ministry is carried out on a Regional basis. Appendix D lists for each of the 6 Regions, the municipalities and their treatment facilities (alphabetically), the type of treatment and design capacity, the average day flow, and the influent/effluent concentrations/loadings for Biochemical Oxygen Demand (BOD), Suspended Solids (SS) and Total Phosphorus. Also shown is the number of monthly observations provided by each facility and the number of monthly exceedences for the 1985 operating year. The Regional Boundaries and District Offices of the Ministry are shown at the beginning of each section. Also summarized at the end of each section is a listing of treatment facilities in each Regional Municipality as well as a brief description of Area Systems and the municipalities they service.

# TABLE V
## 1985 SUMMARY OF MUNICIPAL WASTEWATER TREATMENT FACILITIES

| TREATMENT TYPE | PROVINCIAL SUMMARY NUMBER | | | ** CAPACITY MIGD ** ($10^3$ m$^3$) | | |
|---|---|---|---|---|---|---|
| | MINISTRY | MUNICIPAL | TOTAL | MINISTRY | MUNICIPAL | TOTAL |
| COMMUNAL SEPTIC TANK | 1 | 9 | 10 | .060 | .785 | .845 ( 3.841) |
| PRIMARY | 9 | 23 | 32 | 32.030 | 211.021 | 243.051 (1,104.910) |
| CONVENTIONAL SECONDARY | 31 | 57 | 88 | 211.074 | 714.350 | 925.424 (4,206.978) |
| MODIFIED SECONDARY | 1 | 0 | 1 | 2.700 | .000 | 2.700 ( 12.274) |
| CONTACT STABILIZATION | 7 | 5 | 12 | 5.407 | 7.560 | 12.967 ( 58.948) |
| EXTENDED AERATION | 61 | 30 | 91 | 25.771 | 20.588 | 46.359 ( 210.748) |
| TRICKLING FILTER | 0 | 3 | 3 | .000 | 8.100 | 8.100 ( 36.823) |
| HIGH RATE | 3 | 2 | 5 | 4.110 | 17.000 | 21.110 ( 95.966) |
| OXIDATION DITCH | 9 | 2 | 11 | 2.430 | 1.719 | 4.149 ( 18.861) |
| AERATED LAGOON | 1 | 1 | 2 | .247 | 1.140 | 1.387 ( 6.305) |
| CONVENTIONAL LAGOON CONTINUOUS | 7 | 9 | 16 | 2.006 | 7.033 | 9.039 ( 41.091) |
| CONVENTIONAL LAGOON SEASONAL | 78 | 22 | 100 | 17.135 | 6.782 | 23.917 ( 108.727) |
| CONVENTIONAL LAGOON ANNUAL | 8 | 0 | 8 | .863 | .000 | .863 ( 3.923) |
| LAGOON WITH SPRAY | 3 | 0 | 3 | .334 | .000 | .334 ( 1.518) |
| AERATED CELL PLUS LAGOON | 10 | 6 | 16 | 8.898 | 2.298 | 11.196 ( 50.897) |
| EXFILTRATION LAGOON | 3 | 2 | 5 | .840 | .440 | 1.280 ( 5.819) |
| *** TOTALS*** | 232 | 171 | 403 | 313.905 (1,427.012) | 998.816 (4,540.618) | 1,312.721 ( 5,967.630) |

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
$10^3$ m$^3$ :THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MGD = 4.546 $10^3$ m$^3$

# APPENDIX A

## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS IN 1985

## APPENDIX A
## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS IN 1985

### LEGEND

#### MUNICIPAL CLASSIFICATION

| | |
|---|---|
| RM | Regional Municipality |
| C | City |
| T | Town |
| V | Village |
| ST | Separated Town |
| Twp. | Township |
| UM | Unorganized Municipality |
| DAB | Development Area Board |

#### TREATMENT PROCESSES

| | |
|---|---|
| P | Primary |
| S | Secondary |
| CST | Communal Septic Tank |
| L | Lagoon |
| Lc | Lagoon (continuous discharge) |
| Ls | Lagoon (seasonal discharge) |
| PR | Phosphorus Removal |
| PRb | Phosphorus Removal (batch treatment) |

#### REMEDIAL PROGRAMS(S)

| | |
|---|---|
| E | Expansion of Facilities |
| M | Modifications to Equipment or Collection System |
| O | Operational Changes |

#### OTHER

| | |
|---|---|
| * | MOE operated |
| m | marginal non compliance |

## APPENDIX A
## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS IN 1985

SOUTHWEST REGION

| MUNICIPALITY | TREATMENT TYPE | 1985 NON-COMPLIANCE PARAMETERS | | | NON-COMPLIANCE | | REMEDIAL PROGRAM(S) | ANTICIPATED COMPLIANCE |
|---|---|---|---|---|---|---|---|---|
| | | BOD | SS | T. PHOS. | 1983 | 1984 | | |
| Alvinston (V)* | S,PR | | | X(1.11) | • | • | Yes (M,O) | 1986 |
| Amherstburg (T) | P,PR | X(21.1) (43%) | X(23.9) (62%) | X(3.24) | • | • | Yes (E) | 1987 |
| Aylmer (T)* | Ls,PR | | | X(1.18) | | • | Yes (M,O) | 1986 |
| Blandford-Blenheim (Twp.) (Plattsville)* | Ls,PRb | | X(30.8) | | | • | Yes (O) | 1986 |
| Blenheim (T)* | Ls,PRb | | X(56.1) | | • | • | Yes (M,O) | 1987 |
| Chatham (C) | S,PR | | | m(1.01) | | | Yes (O) | 1986 |
| Clinton (T) | S,PR | | | X(1.21) | • | | Yes (O) | 1986 |
| Dutton (V)* | Ls,PRb | | X(64.1) | | • | | Yes (E) | 1988 |
| East Zorra (Twp.) (Tavistock)* | Ls,PRb | X(29.1) | X(78.3) | X(2.67) | • | • | Yes (E) | 1988 |
| Enniskillen (Twp.) (Oil City)* | Ls,PRb | | X(27.5) | | • | | Yes (O) | 1986 |
| Exeter (T)* | Ls,PRb | | X(92.5) | X(1.57) | • | • | Yes (E,M) | 1986 |
| Essex (S.W.)(T)* | Ls,PRb | | X(46.8) | | • | | Yes (O) | 1986 |
| Forest (T)* | Ls | X(31.9) | X(107.4) | | • | • | Yes (O) | 1987 |
| Glencoe (V)* | Ls,PRb | | m(26.0) | | • | • | Yes (O) | 1986 |
| Kingsville (T) | Ls,PRb | | X(47.2) | | • | • | Yes (E) | 1986 |
| Lobo (Twp.) (Kilworth Heights)* | S,PR | | | m(1.02) | • | | Yes (O) | 1986 |
| Lucan (V)* | Ls | | X(44.3) | | | | Yes (E) | 1988 |
| McGillivray (Twp.) (Parkhill)* | Ls,PRb | | X(32.7) | X(1.79) | | • | Yes (O) | 1986 |

* MOE operated

## APPENDIX A
## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS IN 1985

SOUTHWEST REGION

| MUNICIPALITY | TREATMENT TYPE | 1985 NON-COMPLIANCE PARAMETERS | | | NON-COMPLIANCE | | REMEDIAL PROGRAM(S) | ANTICIPATED COMPLIANCE |
|---|---|---|---|---|---|---|---|---|
| | | BOD | SS | T. PHOS. | 1983 | 1984 | | |
| Moore (Twp.) (Courtright)* | S,PR | | | m(1.05) | • | • | Yes (O) | 1986 |
| Moore (Twp). (Brigden)* | Ls,PRb | | X(39.1) | m(1.09) | | | Yes (O) | |
| Point Edward* | P,PR | | | X(2.47) | • | • | No | Unknown |
| Port Stanley (V)* | Ls,PRb | | X(61.6) | | | | Yes (O) | 1986 |
| Ridgetown (V)* | Ls,PRb | | X(83.0) | | • | • | Yes (O) | 1986 |
| Rodney (V)* | Ls,PRb | X(33.3) | X(337.4) | X(2.67) | • | | Yes (E) | 1988 |
| Romney (V) (Wheatley)* | S,PR | | | X(1.31) | | | Yes (O) | 1986 |
| Seaforth (T)* | Ls,PR | | | X(1.22) | • | | Yes (E) | Unknown |
| Sombra (Twp.) (Port Lambton)* | Ls,PRb | | X(101.1) | | | | Yes (O) | 1986 |
| Sombra (Twp.) (Port Sombra)* | Ls,PRb | | X(252.8) | | | | Yes (O) | 1986 |
| Stephen (Twp.) (Grand Bend)* | Ls,PRb | | X(100.7) | | | | Yes (O) | 1986 |
| Strathroy (T) | Lc,PR | | | X(1.29) | • | • | Yes (O) | 1987 |
| St. Thomas (C) | S,PR | | | X(1.13) | | • | Yes (O) | 1986 |
| Thedford (V)* | L | | X(87.0) | | | | Yes (O) | 1986 |
| Tilbury (T) | Ls,PR | | | X(1.50) | • | • | No | Unknown |
| Watford (V)* | Ls,PRb | | X(140.1) | | • | | Yes (O) | 1986 |
| West Lorne* | Ls,PRb | | X(68.2) | | • | • | Yes (O) | 1986 |
| Westminster (Twp.) (Southland Park)* | S,PR | | | X(1.96) | • | | Yes (M) | 1986 |

* MOE operated

## APPENDIX A
## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS IN 1985

SOUTHWEST REGION

| MUNICIPALITY | TREATMENT TYPE | 1985 NON-COMPLIANCE PARAMETERS | | | NON-COMPLIANCE | | REMEDIAL PROGRAM(S) | ANTICIPATE COMPLIANCE |
|---|---|---|---|---|---|---|---|---|
| | | BOD | SS | T. PHOS. | 1983 | 1984 | | |
| Woodstock (C) | S,PR | | | m(1.02) | | | Yes (O) | 1986 |
| Zurich (V)* | L | | m(40.2) | | | | Yes (O) | 1986 |

* MOE operated

## APPENDIX A
## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS IN 1985

WEST-CENTRAL REGION

| MUNICIPALITY | TREATMENT TYPE | 1985 NON-COMPLIANCE PARAMETERS | | | NON-COMPLIANCE | | REMEDIAL PROGRAM(S) | ANTICIPATED COMPLIANCE |
|---|---|---|---|---|---|---|---|---|
| | | BOD | SS | T. PHOS. | 1983 | 1984 | | |
| Arthur (V)* | Ls,PRb | | X(43.8) | | • | • | Yes (E) | Unknown |
| Cambridge (T) (Hespeler)* | S,PR | X(28.3) | X(30.9) | X(1.26) | | | Yes (M) | 1988 |
| Fort Erie (T) (Crystal Beach) | S,PR | | X(30.3) | m(1.06) | | | Yes (E) | Unknown |
| Hamilton (C) (Woodward Ave.) | S | | | X(1.31) | • | • | Yes (O,M) | 1986 |
| Harriston (T)* | Ls | | X(50.9) | | | | Yes (E,M) | 1986 |
| Mount Forest (T) | S,PR | | | X(1.21) | • | | Yes (O) | 1986 |
| Nanticoke (T) (Jarvis)* | Ls,PRb | X(27.0) | X(36.8) | | • | • | Yes (O,E) | 1988 |
| Palmerston (T)* | S | X(76.3) | X(71.9) | | • | • | Yes (E) | 1988 |
| Port Colborne (T) (SeaWay) | S,PR | | | X(1.12) | | • | Yes (O) | 1986 |
| Woolwich (Twp) (Elmira)* | S,PR | X(30.7) | X(45.8) | X(2.32) | • | • | Yes (E) | 1986 |
| Woolwich (Twp) (St. Jacobs)* | S,PR | | m(25.3) | | | | Yes (O) | 1986 |

* MOE operated

## APPENDIX A
## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS IN 1985

CENTRAL REGION

| MUNICIPALITY | TREATMENT TYPE | 1985 NON-COMPLIANCE PARAMETERS | | | NON-COMPLIANCE | | REMEDIAL PROGRAM(S) | ANTICIPATED COMPLIANCE |
|---|---|---|---|---|---|---|---|---|
| | | BOD | SS | T. PHOS. | 1983 | 1984 | | |
| Brock (Twp) (Beaverton River 2) | Ls,PR | | X(50.1) | X(1.11) | | • | Yes (O) | 1986 |
| Brighton (T) | Lc,PR | | | m(1.02) | • | | Yes (O) | 1986 |
| Cobourg (T)(No. 1) | S,PR | | | X(1.53) | | | Yes (O) | 1986 |
| Cobourg (T)(No. 2) | S,PR | | | X(1.93) | | • | Yes (O) | 1986 |
| Collingwood (T) | S,PR | | | X(1.91) | | • | Yes (O,M) | |
| Angus(Twp) (Essa)* | S,PR | | | X(1.18) | | • | Yes (O) | 1986 |
| Metro Toronto (Humber) | S,PR | | | m(1.07) | • | • | Yes (O,M) | 1987 |
| Metro Toronto (Main) | S,PR | | X(26.0) | m(1.09) | | | Yes (O,M) | 1986 |
| Muskoka Lakes(Twp) (Bala) | CST,PR | X(8.4) (48%) | X(15.4) (12%) | m(1.04) | • | • | Yes (O,M) | |
| Pickering (T) (Duffin Creek) | S,PR | | | m(1.05) | • | | Yes | 1987 |
| Stayner (T) | Ls,PRb | X(31.9) | X(35.1) | | | • | Yes | Unknown |

* MOE operated

## APPENDIX A
## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS IN 1985

SOUTHEAST REGION

| MUNICIPALITY | TREATMENT TYPE | 1985 NON-COMPLIANCE PARAMETERS | | | NON-COMPLIANCE | | REMEDIAL PROGRAM(S) | ANTICIPATED COMPLIANCE |
|---|---|---|---|---|---|---|---|---|
| | | BOD | SS | T. PHOS. | 1983 | 1984 | | |
| Almonte (T)* | Ls,PRb | | m(25.5) | X(1.32) | • | • | Yes (O) | 1986 |
| Arnprior (T) | P,PR | X(90.7) (42%) | X(37.6) (67%) | X(1.17) | | • | Yes (O) | 1987 |
| Carleton Place(T)* | S,PR | | X(41.0) | X(1.36) | • | • | Yes (M) | Unknown |
| Chalk River (T)* | S | | X(27.7) | | | | Yes (M) | 1987 |
| Cobden (V) | S,PR | | | X(2.03) | | m | Yes (O) | 1986 |
| Cornwall (C)* | P,PR | X(40.4) (45%) | | | • | • | Yes (E) | 1987 |
| Deloro (V) | CST | X(67.8) (51%) | X(72.8) (42%) | | | | Yes (M) | 1987 |
| Ernestown (Twp) (Amherstview)* | Ls | | X(51.5) | | • | • | Yes (O) | 1986 |
| Ernestown (Twp) (Odessa)* | S,PR | | | m(1.02) | | | Yes (O) | 1986 |
| Gloucester (C) (Green Creek) | P,PR | | X(28.8) (61%) | X(2.00) | | • | Yes (E,M) | 1991 |
| Kemptville (T) | P,PR | | | X(3.33) | • | • | Yes (E) | 1990 |
| Lancaster (V)* | Ls | | X(60.9) | | • | | Yes (O) | 1988 |
| Merrickville (V)* | S,PR | | | X(1.23) | | | Yes (M) | 1986 |
| Morrisburg (V) | P | | X(40.3) (31%) | | | | Yes (M,O) | 1987 |
| Napanee (T) | S,PR | | | X(1.41) | • | • | Yes (O) | 1988 |
| Osnabruck (Twp) (Ingleside) | P | | X(23.7) (45%) | | | | Yes (O) | 1987 |

* MOE operated

## APPENDIX A
## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS IN 1985

SOUTHEAST REGION

| MUNICIPALITY | TREATMENT TYPE | 1985 NON-COMPLIANCE PARAMETERS | | | NON-COMPLIANCE | | REMEDIAL PROGRAM(S) | ANTICIPATED COMPLIANCE |
|---|---|---|---|---|---|---|---|---|
| | | BOD | SS | T. PHOS. | 1983 | 1984 | | |
| Petawawa (V)* | P,PR | X(77.8) (42%) | X(58.9) (53%) | X(4.60) | • | | Yes (M,O) | 1987 |
| Renfrew (T) | P,PR | | | X(1.26) | | m | Yes (O) | 1987 |
| Smith's Falls (ST) | P,PR | X(58.6) (42%) | X(50.9) (64%) | X(1.37) | • | | Yes (E) | 1989 |
| Stirling (V)* | Ls,PRb | m(26.0) | X(26.5) | | | | Yes (O) | 1986 |
| Tweed (V)* | Ls,PR | | | X(1.23) | | | Yes (O) | 1986 |
| Westport (V)* | Ls,PRb | | m(26.8) | | • | • | Yes (E) | 1988 |
| Winchester (V)* | Ls | | X(43.1) | | | | Yes (O) | 1986 |

* MOE operated

## APPENDIX A
## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS IN 1985

NORTHEAST REGION

| MUNICIPALITY | TREATMENT TYPE | 1985 NON-COMPLIANCE PARAMETERS | | | NON-COMPLIANCE | | REMEDIAL PROGRAM(S) | ANTICIPATED COMPLIANCE |
|---|---|---|---|---|---|---|---|---|
| | | BOD | SS | T. PHOS. | 1983 | 1984 | | |
| Assiginack (Twp) (Manitowaning)* | Ls | | m(40.5) | | | • | No | Unknown |
| Caldwell (Twp) (Verner)* | Ls,PRb | | | m(1.08) | | | Yes (O) | 1986 |
| Cochrane (T) | S | | X(44.2) | | • | • | Yes (O) | 1986 |
| Elliot Lake (T) (Esten Lake) | S,PR | | | X(1.10) | | • | Yes (O) | 1986 |
| Gore Bay (T)* | Ls | | X(44.3) | | | | Yes (O) | Unknown |
| Haileybury (T)* (Lake Temiskaming Old) | S | X(40.7) | X(66.2) | | • | • | Yes (E) | 1987 |
| Hearst (T)* | L | | X(64.6) | | | | Yes (O) | 1987 |
| Kapuskasing (T) (Brunetville) | Lc | m(30.5) | X(75.8 | | • | • | Yes (O) | 1987 |
| Kirkland Lake (T)* | S,PR | | | m(1.05) | | • | Yes (O) | 1986 |
| McGarry (Twp) (Virginiatown & Kearns) | CST | X(25.7) | X(28.8) | | | • | No | Discharge to Mine Tailings Area. |
| Moosonee (DAB) (North)* | S | | X(26.3) | | | • | Yes (O) | 1986 |
| Nickel Centre (T) (Falconbridge) | S | X(27.5) | m(25.9) | | • | | Yes (O) | 1986 |
| North Bay (C)* | S,PR | | X(31.4) | X(1.68) | • | • | Yes (E) | 1987 |
| Rayside-Balfour(T) (Azilda) | S,PR | | | X(1.21) | | • | Yes (O) | 1986 |

* MOE operated

## APPENDIX A
## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS IN 1985

NORTHEAST REGION

| MUNICIPALITY | TREATMENT TYPE | 1985 NON-COMPLIANCE PARAMETERS | | | NON-COMPLIANCE | | REMEDIAL PROGRAM(S) | ANTICIPATED COMPLIANCE |
|---|---|---|---|---|---|---|---|---|
| | | BOD | SS | T. PHOS. | 1983 | 1984 | | |
| Timmins (C) (Bob's Lake) | Lc | | X(45.9) | | | | No | Unknown |

* MOE operated

## APPENDIX A
## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS IN 1985

NORTHWEST REGION

| MUNICIPALITY | TREATMENT TYPE | 1985 NON-COMPLIANCE PARAMETERS | | | NON-COMPLIANCE | | REMEDIAL PROGRAM(S) | ANTICIPATED COMPLIANCE |
|---|---|---|---|---|---|---|---|---|
| | | BOD | SS | T. PHOS. | 1983 | 1984 | | |
| Thunder Bay (C) | P,PR | | | m(1.01) | | | Yes (O) | 1986 |

* MOE operated

# APPENDIX B

## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS FOR PHOSPHORUS REMOVAL ON A MONTHLY BASIS

# APPENDIX B

## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS ON A MONTHLY BASIS IN 1985

### CONTINUOUS DISCHARGE FACILITIES NON COMPLIANCE REPORT

| | MUNICIPALITY NAME | FACILITY NAME | TP OBSERVATIONS | TP EXCEEDENCES |
|---|---|---|---|---|
| SOUTHWEST | | | | |
| | ALVINSTON | ALVINSTON WPCP | 8 | 5 |
| | AMHERSTBURG | AMHERSTBURG WPCP | 12 | 10 |
| | CHATHAM | CHATHAM WPCP | 12 | 5 |
| | CHESLEY | CHESLEY | 11 | 4 |
| | CLINTON | CLINTON WPCP | 12 | 9 |
| | COBDEN | COBDEN WPCP | 8 | 7 |
| | EAST WILLIAMS | AILSA CRAIG WPCP | 12 | 3 |
| | GODERICH | GODERICH WPCP | 12 | 3 |
| | HANOVER | HANOVER WPCP | 12 | 3 |
| | INGERSOLL | INGERSOLL NEW WPCP | 12 | 3 |
| | LEAMINGTON | LEAMINGTON WPCP | 12 | 4 |
| | LISTOWEL | LISTOWEL LAGOON | 5 | 1 |
| | LOBO | KILWORTH HEIGHTS WPC | 12 | 7 |
| | LONDON | GREENWAY WPCP | 12 | 2 |
| | LONDON | POTTERSBURG WPCP | 12 | 1 |
| | LONDON | VAUXHALL WPCP | 12 | 1 |
| | MOORE | CORUNNA P.V. WPCP | 12 | 5 |
| | MOORE | COURTRIGHT WPCP | 12 | 5 |
| | OWEN SOUND | OWEN SOUND WPCP | 12 | 3 |
| | PLYMPTON | WYOMING WPCP | 12 | 4 |
| | POINT EDWARD | POINT EDWARD WPCP | 12 | 11 |
| | PORT BURWELL | PORT BURWELL WPCP | 4 | 3 |
| | ROMNEY | WHEATLEY WPCP | 12 | 6 |
| | SARNIA | SARNIA WPCP | 12 | 1 |
| | ST. THOMAS | ST. THOMAS WPCP | 12 | 5 |
| | STRATHROY | STRATHROY LAGOON | 12 | 8 |
| | TUCKERSMITH | VAN ASTRA WPCP | 9 | 1 |
| | WALKERTON | WALKERTON WPCP | 12 | 2 |
| | WALLACEBURG | WALLACEBURG WPCP | 9 | 1 |
| | WESTMINSTER | SOUTHLAND PARK WPCP | 11 | 10 |
| | WINDSOR | WESTERLY WPCP | 12 | 2 |
| | WINDSOR | LITTLE RIVER WPCP | 12 | 3 |
| | WOODSTOCK | WOODSTOCK WPCP | 11 | 5 |

### SEASONAL DISCHARGE FACILITIES NON COMPLIANCE REPORT

| MUNICIPALITY NAME | FACILITY NAME | TP OBSERVATIONS | TP EXCEEDENCES |
|---|---|---|---|
| AYLMER | AYLMER | 3 | 2 |
| EAST ZORRA | TAVISTOCK | 4 | 3 |
| EXETER | EXETER | 3 | 2 |
| HARROW | HARROW | 3 | 1 |
| McGILLIVRAY | PARKHILL | 2 | 2 |
| PORT STANLEY | PORT STANLEY LAGOON | 4 | 1 |
| ROMNEY | ROMNEY | 3 | 2 |
| SEAFORTH | SEAFORTH LAGOON | 4 | 2 |
| TILBURY | TILBURY LAGOON | 2 | 1 |

# APPENDIX B

## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS ON A MONTHLY BASIS IN 1985

CONTINUOUS DISCHARGE FACILITIES
NON COMPLIANCE REPORT

| | MUNICIPALITY NAME | FACILITY NAME | TP OBSERVATIONS | TP EXCEEDANCES |
|---|---|---|---|---|
| WEST-CENTRAL | | | | |
| | BRANTFORD | BRANTFORD WPCP | 12 | 1 |
| | CAMBRIDGE | PRESTON WPCP | 12 | 2 |
| | DUNDAS | DUNDAS KING ST. WPCP | 12 | 3 |
| | PORT ERIE | CRYSTAL BEACH WPCP | 12 | 6 |
| | PORT ERIE | AMOUR AVE. WPCP | 12 | 2 |
| | GUELPH | GUELPH WPCP | 12 | 2 |
| | HALDIMAND | HAGERSVILLE WPCP | 12 | 1 |
| | HALDIMAND | CALEDONIA WPCP | 11 | 3 |
| | HALDIMAND | CAYUGA WPCP | 10 | 1 |
| | MOUNT FOREST | MOUNT FOREST WPCP | 5 | 1 |
| | NANTICOKE | PORT DOVER WPCP | 12 | 1 |
| | PARIS | PARIS WPCP | 12 | 1 |
| | PORT COLBORNE | SEAWAY WPCP | 12 | 6 |
| | ST. CATHARINES | PORT WELLER WPCP | 12 | 2 |
| | WATERLOO | WATERLOO WPCP | 12 | 1 |
| | WELLAND | WELLAND WPCP | 12 | 2 |
| | WELLESLEY | WELLESLEY WPCP | 12 | 3 |
| | WILMOT | BADEN WPCP | 12 | 4 |
| | WOOLWICH | ELMIRA WPCP | 12 | 11 |
| | WOOLWICH | ST. JACOBS PV WPCP | 12 | 2 |

# APPENDIX B

## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS ON A MONTHLY BASIS IN 1985

CONTINUOUS DISCHARGE FACILITIES
NON COMPLIANCE REPORT

| | MUNICIPALITY NAME | FACILITY NAME | TP OBSERVATIONS | TP EXCEEDENCES |
|---|---|---|---|---|
| CENTRAL | | | | |
| | BOBCAYGEON | BOBCAYGEON WPCP | 12 | 2 |
| | BRACEBRIDGE | BRACEBRIDGE WPCP | 8 | 1 |
| | BRIGHTON | BRIGHTON LAGOON | 12 | 3 |
| | BURLINGTON | SEYMAT WPCP | 12 | 1 |
| | CALEDON | BOLTON WPCP | 10 | 1 |
| | CAMPBELLFORD | CAMPBELLFORD WPCP | 11 | 3 |
| | COBOURG | COBOURG WPCP 2 | 12 | 9 |
| | COBOURG | COBOURG WPCP 1 | 10 | 3 |
| | COLLINGWOOD | COLLINGWOOD WPCP | 12 | 10 |
| | DYSART-ET-AL | HALIBURTON | 11 | 3 |
| | [illegible] | ANOUS WPCP | 12 | 6 |
| | FENELON FALLS | FENELON FALLS WPCP | 10 | 2 |
| | GEORGINA | KESWICK WPCP | 2 | 1 |
| | HALTON HILLS | ACTON WPCP+ LAGOON | 12 | 1 |
| | HASTINGS | HASTINGS WPCP | 12 | 1 |
| | HUNTSVILLE | HUNTSVILLE WPCP | 8 | 3 |
| | LINDSAY | LINDSAY | 12 | 1 |
| | METRO TORONTO | DUNBER WPCP | 12 | 6 |
| | METRO TORONTO | MAIN WPCP(TORONTO) | 12 | 7 |
| | METRO TORONTO | NORTH TORONTO WPCP | 12 | 2 |
| | MISSISSAUGA | CLARKSON WPCP S.P. | 12 | 2 |
| | MISSISSAUGA | LAKEVIEW WPCP S.P. | 12 | 1 |
| | NEWCASTLE | PORT DARLINGTON WPCP | 12 | 3 |
| | NORWOOD | NORWOOD WPCP | 10 | 1 |
| | OAKVILLE | SOUTH EAST WPCP | 12 | 2 |
| | OAKVILLE | SOUTH WEST WPCP | 11 | 3 |
| | ORILLIA | ORILLIA WPCP | 12 | 3 |
| | PETERBOROUGH | PETERBOROUGH WPCP | 11 | 3 |
| | PICKERING | DUFFIN CREEK WPCP | 12 | 5 |
| | PORT McNICOLL | PORT McNICOLL WPCP | 12 | 1 |
| | WHITBY | PRINGLE CREEK WPCP 1 | 12 | 2 |
| | WHITBY | PRINGLE CREEK WPCP 2 | 12 | 5 |

SEASONAL DISCHARGE FACILITIES
NON COMPLIANCE REPORT

| MUNICIPALITY NAME | FACILITY NAME | TP OBSERVATIONS | TP EXCEEDENCES |
|---|---|---|---|
| BROCK | BEAVERTON RIVER 2 | 2 | 1 |
| LAKEFIELD | LAKEFIELD LAGOON | 10 | 1 |
| STAYNER | STAYNER LAGOON | 6 | 1 |

# APPENDIX B

## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS ON A MONTHLY BASIS IN 1985

CONTINUOUS DISCHARGE FACILITIES
NON COMPLIANCE REPORT

| | MUNICIPALITY NAME | FACILITY NAME | TP OBSERVATIONS | TP EXCEEDENCES |
|---|---|---|---|---|
| SOUTHEAST | | | | |
| | ALEXANDRIA | ALEXANDRIA LAGOON | 12 | 2 |
| | ARNPRIOR | ARNPRIOR WPCP | 9 | 6 |
| | BROCKVILLE | BROCKVILLE WPCP | 12 | 3 |
| | CORNWALL | CORNWALL WPCP | 12 | 6 |
| | DESERONTO | DESERONTO WPCP | 12 | 1 |
| | ODESSTONE | ODESSA WPCP | 11 | 6 |
| | FRANKFORD | FRANKFORD WPCP | 12 | 1 |
| | GLOUCESTER | GREEN CREEK WPCP | 12 | 1 |
| | HAGARTY & RICHARDS | GILLALOE STN.WPCP | 12 | 2 |
| | HAWKESBURY | HAWKESBURY WPCP | 12 | 3 |
| | IROQUOIS | IROQUOIS WPCP | 1 | 1 |
| | KEMPTVILLE | KEMPTVILLE WPCP | 11 | 10 |
| | KINGSTON TWP | KINGSTON TWP WPCP | 12 | 2 |
| | MERRICKVILLE | MERRICKVILLE WPCP | 12 | 3 |
| | NAPANEE | NAPANEE WPCP | 12 | 9 |
| | PERTH | PERTH LAGOON | 11 | 1 |
| | PETAWAWA | PETAWAWA WPCP | 12 | 12 |
| | PICTON | PICTON WPCP | 11 | 1 |
| | RENFREW | RENFREW WPCP | 10 | 4 |
| | SIDNEY | BATAVA WPCP | 12 | 1 |
| | SMITHS FALLS | SMITHS FALLS WPCP | 7 | 4 |
| | WELLINGTON | WELLINGTON WPCP | 12 | 1 |

SEASONAL DISCHARGE FACILITIES
NON COMPLIANCE REPORT

| MUNICIPALITY NAME | FACILITY NAME | TP OBSERVATIONS | TP EXCEEDENCES |
|---|---|---|---|
| ALMONTE | ALMONTE LAGOON | 4 | 3 |
| TWEED | TWEED | 3 | 2 |

# APPENDIX B

## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS ON A MONTHLY BASIS IN 1985

CONTINUOUS DISCHARGE FACILITIES
BOD COMPLIANCE REPORT

| NORTHEAST | MUNICIPALITY NAME | FACILITY NAME | TP OBSERVATIONS | TP EXCEEDANCES |
|---|---|---|---|---|
| | ELLIOT LAKE | ELLIOT LAKE WPCP | 12 | 7 |
| | HAILEYBURY DEV | LAKE TEMISKAMING WPC | 2 | 2 |
| | KIRKLAND LAKE | KIRKLAND LAKE WPCP | 12 | 6 |
| | NORTH BAY | NORTH BAY WPCP | 12 | 12 |
| | RAYSIDE-BALFOUR | AZILDA WPCP | 12 | 4 |
| | RAYSIDE-BALFOUR | CHELMSFORD WPCP | 12 | 3 |

SEASONAL DISCHARGE FACILITIES
BOD COMPLIANCE REPORT

| MUNICIPALITY NAME | FACILITY NAME | TP OBSERVATIONS | TP EXCEEDANCES |
|---|---|---|---|
| CALDWELL | VERNER LAGOON | 6 | 3 |

# APPENDIX B

## MUNICIPAL WASTEWATER TREATMENT FACILITIES NOT MEETING EFFLUENT REQUIREMENTS ON A MONTHLY BASIS IN 1985

CONTINUOUS DISCHARGE FACILITIES
NON COMPLIANCE REPORT

| MUNICIPALITY NAME | FACILITY NAME | TP OBSERVATIONS | TP EXCEEDANCES |
|---|---|---|---|
| NORTHWEST | | | |
| ATIKOKAN | ATIKOKAN WPCP | 12 | 5 |
| IGNACE | IGNACE WPCP | 12 | 1 |
| THUNDER BAY | THUNDER BAY WPCP | 12 | 6 |

# APPENDIX C

## MISA

## 40 PLANT SURVEY

## PRIORITY POLLUTANT ANALYSIS LIST

# APPENDIX C

## MISA 40 PLANT SURVEY

## PRIORITY POLLUTANT ANALYSIS LIST

Volatiles - Chlorinated
Non Chlorinated
Water Soluble

Acrolein
Acrylonitrile
Benzene
Benzyl chloride (alpha-chlorotoluene)
Bromodichloromethane
Bromoform
Bromoethane
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
Dibromochloromethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
Dichloroethane
trans-1,2-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Ethylbenzene
Methylene chloride (dichloromethane)
1,1,2,2-Tetrachloroethane
Tetrachloroethene
Toluene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
Vinyl Chloride
Bromodichlorobenzene
3-Chloro-1-propene
3-Chloro-toluene
Diethyl ether
1,2-Dimethyl-benzene (o-Xylene)
1,3-Dimethyl-benzene (m-Xylene)
1,4-Dimethyl-benzene (p-Xylene)
Hexane
Hexanol
1-Octene
Styrene
Vinyl bromide

# APPENDIX C

## MISA 40 PLANT SURVEY

## PRIORITY POLLUTANT ANALYSIS LIST

**Extractables, Chlorinated Industrials, Chlorinated Hydrocarbons, Phenoxy Acid Herbicides, Organophosphorous Pesticides, Carbamates Triazine Herbicides**

Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
PCB-1016
PCB-1221
PCB-1232
PCB-1242
PCB-1248
PCB-1254
PCB-1260
1,2,4-Trichlorobenzene
Aldrin
Ametryn
Atrazine
alpha-BHC
beta-BHC
gamma-BHC (Lindane)
delta-BHC
Captan
Chlordane
2,4-D
4,4'-DD
4,4'-DDE
4,4'-DDT
Diazinon
Dichloran
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulphate
Endrin
Endrin Aldehyde
Heptachlor
Heptachlor epoxide
Malathion
Methoxychlor
Mirex
Oxychlordane
Parathion methyl
Parathion ethyl
PCNB
Photomirex
Strobane
2,4,5-T
2,4,5-tp (Silvex)
Toxaphene

**Chlorinated Dibenzodioxins Chlorinated Dibenzofurans**

2,3,7,8-Tetrachloro-dibenzo-dioxin
2,3,7,8-Tetrachloro-dibenzo-furan

# APPENDIX C

## MISA 40 PLANT SURVEY

## PRIORITY POLLUTANT ANALYSIS LIST

Extractables
Base/Neutral and Acidic

Acenaphthene
Acenaphthalene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Benzyl butyl phthalate
Bis(2-chloroethyl) ether
Bis(2-chloroethoxy) methane
Bis(2-chloroisopropyl) ether
Bis(2-ethylhexyl) phthalate
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
(4-chloro-m-cresol)
2-Chloroethylvinyl ether
2-Chloronaphthalene
2-Chlorophenol
4-Chlorophenylphenyl ether
Chrysene
Dibenzo(a,h) anthracene
2,4-Dichlorophenol
Diethyl phthalate
2,4-Dimethylphenol
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
Fluoranthene
Fluorene
Ideno(1,2,3-cd) pyrene
2-Methyl-4,6-dinitrophenol
Naphthalene
Nitrobenzene
2-Nitrophenol
4-Nitrophenol
N-Nitrosodimethylamine
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
2,4,6-Trichlorophenol
Biphenyl
Diethyl hexyl phthalate
Diphenyl ether
2-Hydroxy-toluene (o-Cresol)
3-Hydroxy-toluene (m-Cresol)
4-Hydroxy-toluene (p-Cresol)
alpha-naphthylamine
beta-Naphthylamine
Tri(2-tolyl) ester, phosphoric acid
(tri-o-cresyl phosphate)
2,4,5-Trichlorophenol (2,4,5-TCP)

# APPENDIX C

## MISA 40 PLANT SURVEY

## PRIORITY POLLUTANT ANALYSIS LIST

**Conventional Parameters**

BOD
COD
Total Suspended Solids
Volatile Suspended Solids
Total Phosphorus
Total Nitrogen
Ammonia
Nitrate
Nitrite
Total Phenol (by 4AAP)
pH
Turbidity
Dissolved Organic Carbon
Dissolved Inorganic Carbon
Cyanide

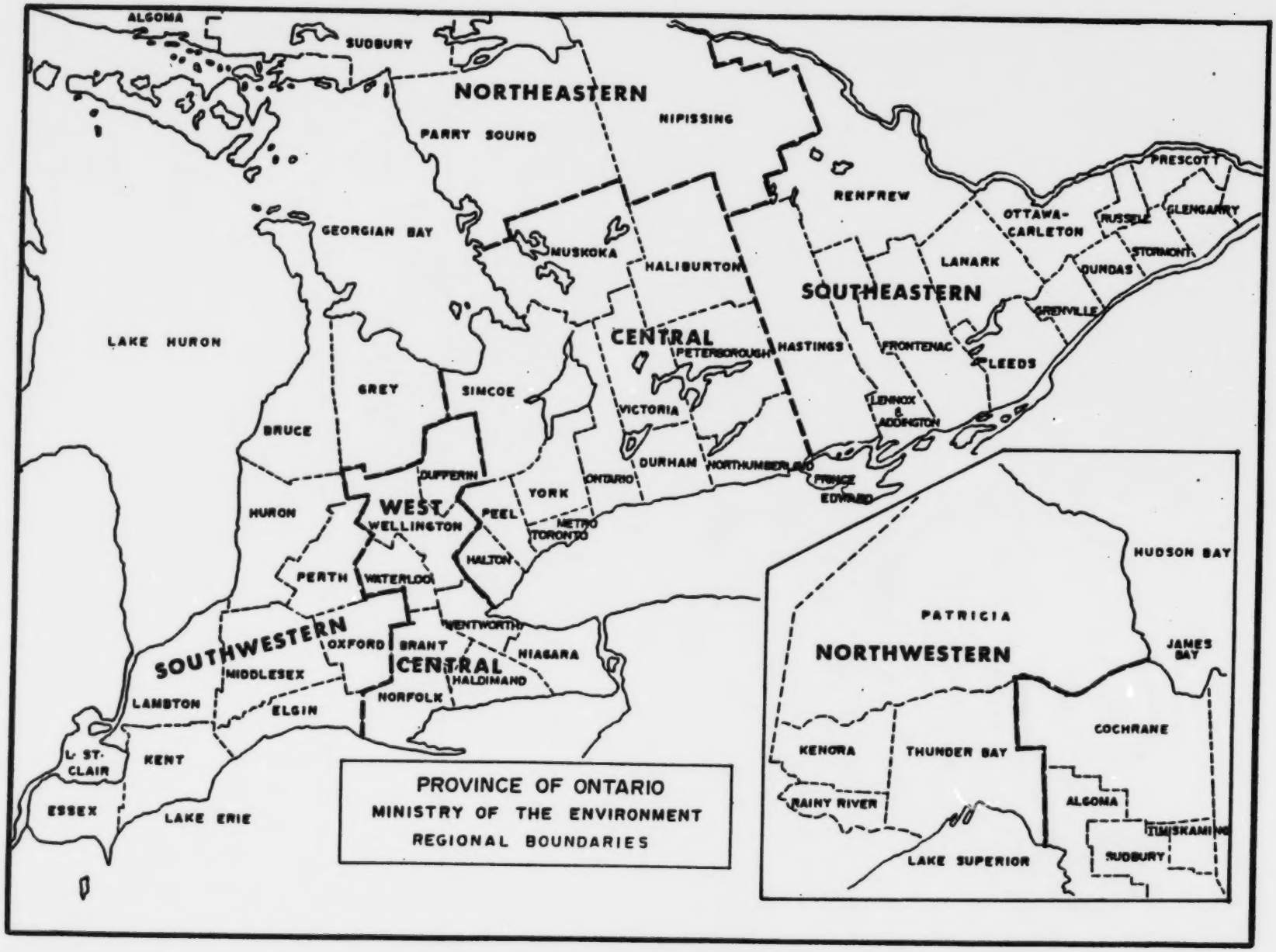
**Heavy Metals**

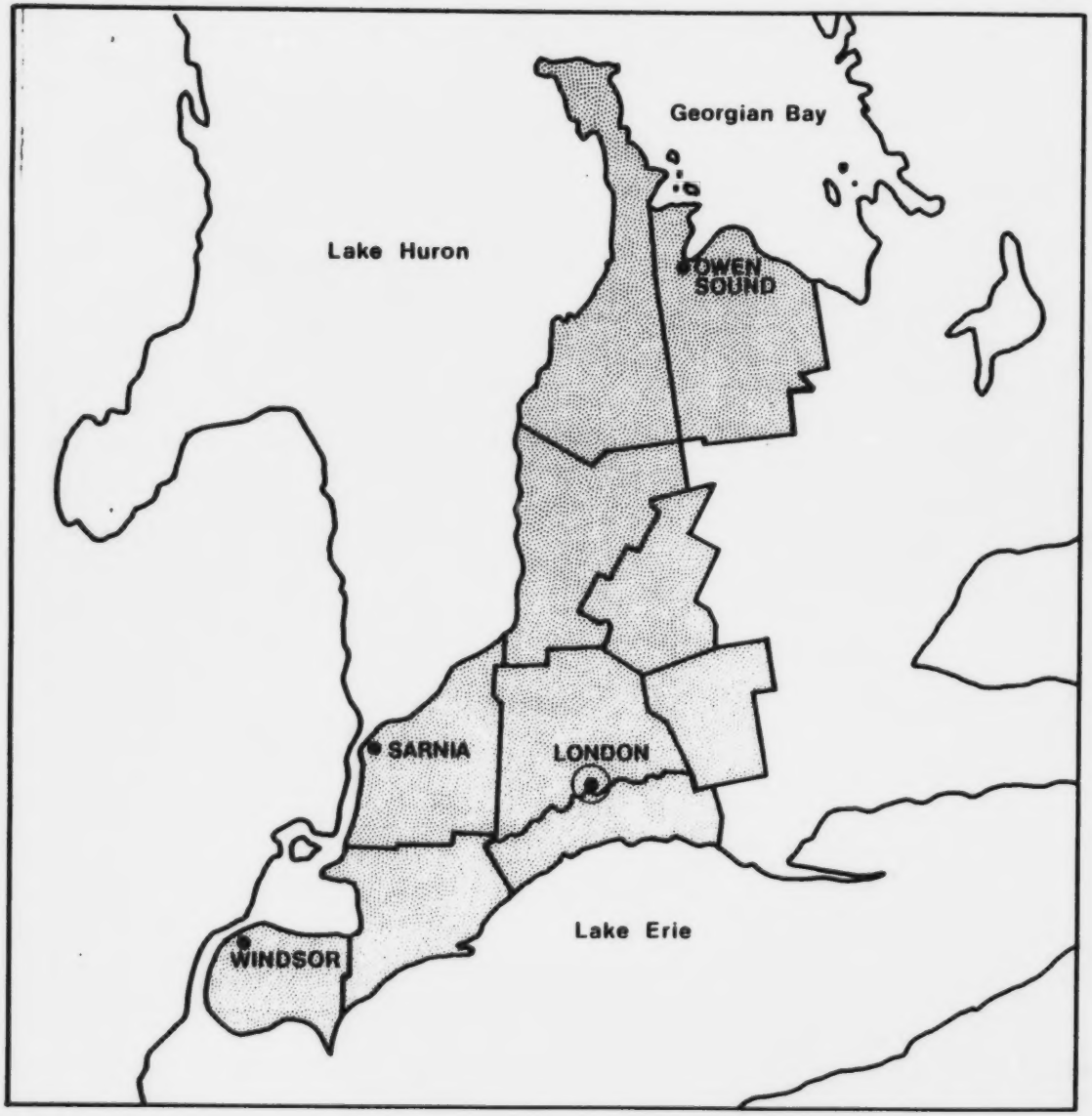
Aluminum
Antimony
Beryllium
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Mercury
Molydemum
Nickel
Selinium
Silver
Tin
Thallium
Zinc

# APPENDIX D

## MUNICIPAL WASTEWATER TREATMENT FACILITIES

## LISTINGS AND OPERATING DATA


ALGOMA
SUDBURY
NORTHEASTERN
NIPISSING
PARRY SOUND
PRESCOTT
RENFREW
GEORGIAN BAY
OTTAWA-CARLETON
RUSSELL
GLENGARRY
MUSKOKA
HALIBURTON
LANARK
STORMONT
DUNDAS
SOUTHEASTERN
GRENVILLE
LAKE HURON
CENTRAL
PETERBOROUGH
HASTINGS
FRONTENAC
LEEDS
GREY
SIMCOE
VICTORIA
LENNOX & ADDINGTON
BRUCE
DURHAM
NORTHUMBERLAND
PRINCE EDWARD
DUFFERIN
YORK
ONTARIO
HURON
WEST
WELLINGTON
PEEL
METRO TORONTO
HALTON
PERTH
WATERLOO
WENTWORTH
SOUTHWESTERN
OXFORD
BRANT
NIAGARA
CENTRAL
MIDDLESEX
HALDIMAND
LAMBTON
NORFOLK
ELGIN
ST. CLAIR
KENT
ESSEX
LAKE ERIE
PROVINCE OF ONTARIO
MINISTRY OF THE ENVIRONMENT
REGIONAL BOUNDARIES
HUDSON BAY
PATRICIA
NORTHWESTERN
JAMES BAY
COCHRANE
KENORA
THUNDER BAY
RAINY RIVER
ALGOMA
TIMISKAMING
SUDBURY
LAKE SUPERIOR


Georgian Bay
Lake Huron
OWEN SOUND
SARNIA
LONDON
Lake Erie
WINDSOR

**REGIONAL OFFICE**

London
985 Adelaide St. S.
N6E 1V3
519 661-2200

**DISTRICT OFFICES**

London South
985 Adelaide St. S.
N6E 1V3
519 661-2200

London North
985 Adelaide St. S.
N6E 1V3
519 661-2200

Owen Sound
1180 20th St. E.
N4K 6H6
519 371-2901

Sarnia
265 N. Front St.
N7T 7X1
519 336-4030

Windsor
250 Windsor Ave.
N9A 6V9
519 254-5129

**SUB-OFFICE**

Chatham
c/o Ministry of
Agriculture & Food
435 Grand Ave. W.
N7M 5L1
519 354-2150

Clinton
c/o Ministry of
Agriculture & Food
P.O. Box 688
NOM 1LO
519 482-3428

SOUTHWESTERN REGION SUMMARY

| TREATMENT TYPE | NUMBER | | | CAPACITY MIGD ** (1000M$^3$) | | |
|---|---|---|---|---|---|---|
| | MINISTRY | MUNICIPAL | TOTAL | MINISTRY | MUNICIPAL | TOTAL |
| PRIMARY | 2 | 3 | 5 | 5.970 | 51.500 | 57.470 |
| | | | | | | ( 261.259) |
| CONVENTIONAL ACTIVATED SLUDGE | 8 | 12 | 20 | 13.059 | 79.960 | 93.019 |
| | | | | | | ( 422.864) |
| CONTACT STABILIZATION | 0 | 1 | 1 | .000 | .400 | .400 |
| | | | | | | ( 1.818) |
| EXTENDED AERATION | 18 | 1 | 19 | 7.152 | 4.200 | 11.352 |
| | | | | | | ( 51.606) |
| HIGH RATE | 1 | 0 | 1 | .860 | .000 | .860 |
| | | | | | | ( 3.910) |
| OXIDATION DITCH | 2 | 1 | 3 | .825 | 1.420 | 2.245 |
| | | | | | | ( 10.206) |
| AERATED LAGOON | 1 | 1 | 2 | .247 | 1.140 | 1.387 |
| | | | | | | ( 6.305) |
| CONVENTIONAL LAGOON ANNUAL | 5 | 0 | 5 | .479 | .000 | .479 |
| | | | | | | ( 2.178) |
| CONVENTIONAL LAGOON CONTINUOUS | 3 | 0 | 3 | 1.115 | .000 | 1.115 |
| | | | | | | ( 5.069) |
| CONVENTIONAL LAGOON SEASONAL | 35 | 3 | 38 | 9.698 | 1.172 | 10.870 |
| | | | | | | ( 49.415) |
| LAGOON AND SPRAY | 1 | 0 | 1 | .125 | .000 | .125 |
| | | | | | | ( .568) |
| AERATED CELL PLUS LAGOON | 4 | 1 | 5 | 2.893 | .037 | 2.930 |
| | | | | | | ( 13.320) |
| **** TOTALS **** | 80 | 23 | 103 | 42.423 | 139.829 | 182.252 |
| | | | | ( 192.855) | ( 635.663) | ( 828.518) |

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
1000M$^3$ :THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MIGD = 4.546 1000M$^3$

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | INFLUENT<br>ANNUAL AVERAGE<br>LOADING KG/DAY | EFFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | EFFLUENT<br>ANNUAL AVERAGE<br>LOADING KG/DAY | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | COMPLIANCE<br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| ALVINSTON #MIN# | | | | | | | | |
| 110002069 | | | | | | | | |
| VILLAGE | 629 | | B O D: 95.00 | 14.06 | B O D: 3.30 | 0.49 | 8 | |
| ALVINSTON WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .132) | | ( .033 ) | S S : 118.00 | 17.46 | S S : 4.00 | 0.59 | 8 | |
| 1000 CUBIC METRES: .600 | | .148 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 5.60 | 0.83 | T.PHOS: 1.11 | 0.16 | 8 | 5 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: SYDENHAM RIVER | | | | | |
| | | | REMEDIAL MEASURE: PROCESS/EQUIPMENT IMPROVEMENTS | | | | | |
| AMHERSTBURG | | | | | | | | |
| 120001087 | | | | | | | | |
| TOWN | 8500 | | B O D: 69.00 | 615.89 | B O D: 25.10 | 224.04 | 11 | 7 |
| AMHERSTBURG WPCP | | | | | | | | |
| CAPACITY (MIGD): ( 1.000) | | ( 1.964 ) | S S : 136.00 | 1,213.94 | S S : 23.90 | 213.33 | 10 | 5 |
| 1000 CUBIC METRES: 4.546 | | 8.926 | | | | | | |
| PRIMARY | | | T.PHOS: 5.20 | 46.42 | T.PHOS: 3.24 | 28.92 | 12 | 10 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: DETROIT RIVER | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | |
| ANDERDON (EDGEWATER) #MIN# | | | | | | | | |
| 110002407 | | | | | | | | |
| TOWNSHIP | 761 | | B O D: 71.00 | 34.86 | B O D: 3.30 | 1.62 | 4 | |
| EDGEWATER BEACH LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .355) | | ( .108 ) | S S : 46.00 | 22.59 | S S : 5.20 | 2.55 | 4 | |
| 1000 CUBIC METRES: 1.614 | | .491 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 5.30 | 2.60 | T.PHOS: 0.47 | 0.23 | 4 | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | |
| | | | WATERCOURSE: DETROIT RIVER | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|
| ANDERDON (MCGREGOR) #MIN# 110002096 | | | | | | | | | | |
| TOWNSHIP | 1100 | | | B O D: 121.00 | 54.57 | B O D: 11.10 | 5.01 | 2 | | |
| MCGREGOR LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | ( .125) | ( .099 ) | | S S : 149.00 | 67.20 | S S : 22.80 | 10.28 | 2 | | |
| 1000 CUBIC METRES: | .568 | .451 | | | | | | | | |
| LAGOON AND SPRAY | | | | T.PHOS: 7.80 | 3.52 | T.PHOS: 0.75 | 0.34 | 2 | | |
| SEASONAL DISCHARGE | | | | | | | | | | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | | |
| | | | | WATERCOURSE: KING'S CREEK | | | | | | |
| ARRAN (TARA) #MIN# 110003237 | | | | | | | | | | |
| TOWNSHIP | 590 | | | B O D: 132.00 | 26.00 | B O D: 9.20 | 1.81 | 3 | | |
| TARA LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | ( .143) | ( .043 ) | | S S : 145.00 | 28.57 | S S : 15.00 | 2.96 | 3 | | |
| 1000 CUBIC METRES: | .650 | .197 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 7.60 | 1.50 | T.PHOS: 0.53 | 0.10 | 3 | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | WATERCOURSE: SAUBLE RIVER | | | | | | |
| AYLMER #MIN# 110000891 | | | | | | | | | | |
| TOWN | 5127 | | | B O D: 135.00 | 597.11 | B O D: 9.60 | 42.46 | 3 | | |
| AYLMER LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | ( 1.150) | ( .973 ) | | S S : 119.00 | 526.34 | S S : 33.10 | 146.40 | 3 | 1 | |
| 1000 CUBIC METRES: | 5.228 | 4.423 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 5.70 | 25.21 | T.PHOS: 1.18 | 5.22 | 3 | 2 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | WATERCOURSE: CATFISH CREEK | | | | | | |
| | | | | REMEDIAL MEASURE: PROCESS/EQUIPMENT IMPROVEMENTS | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE # MONTHS EFFLUENT EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|
| BELMONT #MIN# 110002032 | | | | | | | | | | |
| VILLAGE | 906 | | | | | | | | | |
| BELMONT LAGOON | | | | B O D: | 95.00 | 32.11 | B O D: | 11.00 | 3.72 | 2 |
| CAPACITY (MIGD): | ( .124) | ( | .074 ) | | | | | | | |
| 1000 CUBIC METRES: | .564 | | .338 | S S : | 107.00 | 36.17 | S S : | 35.60 | 12.03 | 2 |
| CONVENTIONAL LAGOON SEASONAL | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | T.PHOS: | 5.80 | 1.96 | T.PHOS: | 0.72 | 0.24 | 2 |
| | | | | WATERCOURSE: KETTLE CREEK | | | | | | |
| BLANDFORD-BLENHEIM(PLAT) #MIN# 110003022 | | | | | | | | | | |
| TOWNSHIP | 528 | | | | | | | | | |
| PLATTSVILLE LAGOON | | | | B O D: | 169.00 | 57.46 | B O D: | 11.00 | 3.74 | 3 |
| CAPACITY (MIGD): | ( .131) | ( | .075 ) | | | | | | | |
| 1000 CUBIC METRES: | .596 | | .340 | S S : | 173.00 | 58.82 | S S : | 30.80 | 10.47 | 3 2 |
| AERATED CELL PLUS LAGOON | | | | | | | | | | |
| SEASONAL DISCHARGE | | | | | | | | | | |
| PHOSPHORUS REMOVAL - BATCH | | | | T.PHOS: | 4.30 | 1.46 | T.PHOS: | 0.51 | 0.17 | 3 |
| | | | | WATERCOURSE: NITH RIVER | | | | | | |
| BLENHEIM #MIN# 120001666 | | | | | | | | | | |
| TOWN | 4000 | | | | | | | | | |
| BLENHEIM LAGOON | | | | B O D: | 205.00 | 319.80 | B O D: | 9.70 | 15.13 | 2 |
| CAPACITY (MIGD): | ( .429) | ( | .343 ) | | | | | | | |
| 1000 CUBIC METRES: | 1.950 | | 1.560 | S S : | 188.00 | 293.28 | S S : | 56.10 | 87.52 | 2 2 |
| CONVENTIONAL LAGOON SEASONAL | | | | | | | | | | |
| PHOSPHORUS REMOVAL - BATCH | | | | T.PHOS: | 7.30 | 11.39 | T.PHOS: | 0.56 | 0.87 | 2 |
| | | | | WATERCOURSE: CAMERON DR - MCGREGOR CK | | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|
| BLYTH ** *MIN* 110002247 | | | | | | | | | |
| VILLAGE | 890 | | BOD: 168.00 | 54.26 | BOD: 4.50 | 1.45 | 12 | | |
| BLYTH WPCP | | | | | | | | | |
| CAPACITY (MIGD): ( .161) | | ( .071 ) | SS : 236.00 | 76.23 | SS : 2.80 | 0.90 | 12 | | |
| 1000 CUBIC METRES: .732 | | .323 | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 8.60 | 2.78 | T.PHOS: 0.30 | 0.10 | 12 | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | |
| | | | | WATERCOURSE: BLYTH CREEK | | | | | |
| BRUSSELS ** *MIN* 110002354 | | | | | | | | | |
| VILLAGE | 970 | | BOD: 129.00 | 56.50 | BOD: 3.30 | 1.45 | 12 | | |
| BRUSSELS WPCP | | | | | | | | | |
| CAPACITY (MIGD): ( .194) | | ( .096 ) | SS : 168.00 | 73.58 | SS : 3.70 | 1.62 | 12 | | |
| 1000 CUBIC METRES: .882 | | .438 | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 8.60 | 3.77 | T.PHOS: 0.30 | 0.13 | 12 | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | |
| | | | | WATERCOURSE: MAITLAND RIVER | | | | | |
| CHATHAM ** 110000098 | | | | | | | | | |
| CITY | 41000 | | BOD: 210.00 | 6,264.93 | BOD: 8.20 | 244.63 | 12 | | |
| CHATHAM WPCP | | | | | | | | | |
| CAPACITY (MIGD): ( 7.900) | | ( 6.563 ) | SS : 243.00 | 7,249.42 | SS : 17.50 | 522.08 | 12 | 3 | |
| 1000 CUBIC METRES: 35.913 | | 29.833 | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 18.20 | 542.96 | T.PHOS: 1.01 | 30.13 | 12 | 5 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | |
| | | | | WATERCOURSE: THAMES RIVER | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| CHESLEY **MIN** | | | | | | | | |
| 110000105 | | | | | | | | |
| TOWN | 1876 | | B O D: 44.00 | 77.97 | B O D: 7.50 | 13.29 | 10 | |
| CHESLEY LAGOON (JAN-APR D.C.2307 M3) | | | | | | | | |
| CAPACITY (MIGD): ( .321) | | ( .390 ) | S S : 56.00 | 99.23 | S S : 18.10 | 32.07 | 11 | 2 |
| 1000 CUBIC METRES: 1.459 | | 1.772 | | | | | | |
| CONVENTIONAL LAGOON CONTINUOUS | | | T.PHOS: 2.60 | 4.61 | T.PHOS: 0.94 | 1.67 | 11 | 4 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: NORTH SAUGEEN RIVER | | | | | |
| CLINTON ** | | | | | | | | |
| 120000925 | | | | | | | | |
| TOWN | 3000 | | B O D: 72.00 | 153.72 | B O D: 6.30 | 13.45 | 12 | 1 |
| CLINTON WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .400) | | ( .470 ) | S S : 88.00 | 187.88 | S S : 7.80 | 16.65 | 12 | 1 |
| 1000 CUBIC METRES: 1.818 | | 2.135 | | | | | | |
| CONTACT STABILIZATION | | | T.PHOS: 3.70 | 7.90 | T.PHOS: 1.21 | 2.58 | 12 | 9 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| EFFLUENT FILTRATION | | | | | | | | |
| | | | WATERCOURSE: BAYFIELD RIVER | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | |
| DOVER (MITCHELL'S BAY) **MIN** | | | | | NO 1985 DISCHARGE | | | |
| 110002087 | | | | | | | | |
| TOWNSHIP | 350 | | B O D: 75.00 | 15.15 | B O D: 0.00 | 0.00 | | |
| MITCHELL'S BAY LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .112) | | ( .044 ) | S S : 113.00 | 22.83 | S S : 0.00 | 0.00 | | |
| 1000 CUBIC METRES: .509 | | .202 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 4.10 | 0.83 | T.PHOS: 0.00 | 0.00 | | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | |
| | | | WATERCOURSE: LAKE ST. CLAIR | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| DRESDEN *MIN* 110002014 | | | | | | | | | | |
| TOWN | 2278 | | | B O D: | 173.00 | 409.15 | B O D: | 3.80 | 8.99 | 12 |
| DRESDEN WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( 1.000) | ( .520 ) | | S S : | 318.00 | 752.07 | S S : | 8.40 | 19.87 | 12 |
| 1000 CUBIC METRES: | 4.546 | 2.365 | | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: | 4.60 | 10.88 | T.PHOS: | 0.33 | 0.78 | 12 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | WATERCOURSE: SYDENHAM RIVER | | | | | | |
| DUNDALK *MIN* 110001471 | | | | | | | | | | |
| VILLAGE | 1190 | | | B O D: | 39.00 | 31.43 | B O D: | 10.70 | 8.62 | 2 |
| DUNDALK LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | ( .233) | ( .177 ) | | S S : | 40.00 | 32.24 | S S : | 8.70 | 7.01 | 2 |
| 1000 CUBIC METRES: | 1.059 | .806 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: | 2.10 | 1.69 | T.PHOS: | 0.79 | 0.64 | 2 |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | | |
| | | | | WATERCOURSE: FOLEY DRAIN TO GRAND R. | | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | |
| DURHAM *MIN* 110000999 | | | | | | | | | | |
| TOWN | 2430 | | | B O D: | 83.00 | 80.76 | B O D: | 4.20 | 4.09 | 12 |
| DURHAM NUM WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( .480) | ( .214 ) | | S S : | 203.00 | 197.52 | S S : | 8.80 | 8.56 | 12 |
| 1000 CUBIC METRES: | 2.182 | .973 | | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: | 4.50 | 4.38 | T.PHOS: | 0.69 | 0.67 | 12 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | WATERCOURSE: SAUGEEN RIVER | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| DUTTON *MIN* 110001266 | | | | | | | | | |
| VILLAGE | 809 | | | B O D: 170.00 | 77.86 | B O D: 17.50 | 8.02 | 3 | |
| DUTTON LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .074) | ( | .101 ) | S S : 135.00 | 61.83 | S S : 64.10 | 29.36 | 3 | 3 |
| 1000 CUBIC METRES: | .336 | | .458 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 8.50 | 3.89 | T.PHOS: 0.79 | 0.36 | 3 | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | |
| | | | | WATERCOURSE: BENNETT CK. TO L. ERIE | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | |
| E.MILLIAMS (AILSA CRAIG) *MIN* 110002050 | | | | | | | | | |
| TOWNSHIP | 613 | | | B O D: 106.00 | 36.78 | B O D: 4.10 | 1.42 | 12 | |
| AILSA CRAIG WPCP | | | | | | | | | |
| CAPACITY (MIGD): | ( .132) | ( | .076 ) | S S : 147.00 | 51.01 | S S : 9.00 | 3.12 | 12 | |
| 1000 CUBIC METRES: | .600 | | .347 | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 6.90 | 2.39 | T.PHOS: 0.82 | 0.28 | 12 | 3 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| | | | | WATERCOURSE: AUSABLE RIVER | | | | | |
| | | | | REMEDIAL MEASURE: PROCESS/EQUIPMENT IMPROVEMENTS | | | | | |
| EAST ZORRA (TAVISTOCK) *MIN* 110000720 | | | | | | | | | |
| TOWNSHIP | 1920 | | | B O D: 349.00 | 331.20 | B O D: 29.10 | 27.62 | 4 | 1 |
| TAVISTOCK LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .170) | ( | .209 ) | S S : 287.00 | 272.36 | S S : 78.30 | 74.31 | 4 | 3 |
| 1000 CUBIC METRES: | .773 | | .949 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 14.50 | 13.76 | T.PHOS: 2.67 | 2.53 | 4 | 3 |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | |
| | | | | WATERCOURSE: TRIBUTARY TO THAMES R. | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| ENNISKILLEN (OIL CITY) *MIN* 110001738 | | | | | | | | | |
| TOWNSHIP | 200 | | | B O D: 144.00 | 10.51 | B O D: 6.74 | 0.49 | 2 | |
| OIL CITY LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .040) | ( | .016 ) | S S : 95.00 | 6.94 | S S : 27.55 | 2.01 | 2 | 1 |
| 1000 CUBIC METRES: | .182 | | .073 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH | | | | T.PHOS: 8.70 | 0.64 | T.PHOS: 0.26 | 0.02 | 2 | |
| WATERCOURSE: BLACK CREEK | | | | | | | | | |
| ESSEX (N.E.) *MIN* 110000203 | | | | | | | | | |
| TOWN | 2300 | | | B O D: 39.00 | 69.07 | B O D: 4.30 | 7.62 | 2 | |
| ESSEX LAGOON N.E. | | | | | | | | | |
| CAPACITY (MIGD): | ( .635) | ( | .390 ) | S S : 80.00 | 141.68 | S S : 13.60 | 24.09 | 2 | |
| 1000 CUBIC METRES: | 2.887 | | 1.771 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH | | | | T.PHOS: 3.90 | 6.91 | T.PHOS: 0.18 | 0.32 | 2 | |
| WATERCOURSE: PUCE RIVER DRAIN | | | | | | | | | |
| ESSEX (S.W.) *MIN* 110000837 | | | | | | | | | |
| TOWN | 3900 | | | B O D: 147.00 | 154.64 | B O D: 13.10 | 13.78 | 2 | |
| ESSEX LAGOON S.W. | | | | | | | | | |
| CAPACITY (MIGD): | ( .336) | ( | .231 ) | S S : 251.00 | 264.05 | S S : 46.80 | 49.23 | 2 | 2 |
| 1000 CUBIC METRES: | 1.527 | | 1.052 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH | | | | T.PHOS: 8.30 | 8.73 | T.PHOS: 0.72 | 0.76 | 2 | |
| WATERCOURSE: CANARD RIVER | | | | | | | | | |
| REMEDIAL MEASURE: MINOR MODIFICATION REQUIRED | | | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| EXETER *MIN* 110000221 | | | | | | | | | |
| TOWN | 3686 | | | B O D: 76.00 | 198.51 | B O D: 7.70 | 20.11 | 3 | |
| EXETER LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .491) | ( | .575 ) | S S : 104.50 | 272.95 | S S : 92.50 | 241.61 | 3 | 1 |
| 1000 CUBIC METRES: | 2.232 | | 2.612 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH | | | | T.PHOS: 4.00 | 10.45 | T.PHOS: 1.57 | 4.10 | 3 | 2 |
| WATERCOURSE: AUSABLE RIVER | | | | | | | | | |
| REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | | | |
| FOREST *MIN* 110001346 | | | | | | | | | |
| TOWN | 2590 | | | B O D: 128.00 | 97.28 | B O D: 31.90 | 24.24 | 2 | 1 |
| FOREST LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .297) | ( | .167 ) | S S : 168.00 | 127.68 | S S : 107.40 | 81.62 | 2 | 2 |
| 1000 CUBIC METRES: | 1.350 | | .760 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 5.70 | 4.33 | T.PHOS: 4.10 | 3.12 | 2 | |
| WATERCOURSE: HICKORY CREEK | | | | | | | | | |
| REMEDIAL MEASURE: MEASURE BEING EVALUATED | | | | | | | | | |
| GLENCOE *MIN* 110001845 | | | | | | | | | |
| VILLAGE | 1690 | | | B O D: 150.00 | 98.40 | B O D: 9.50 | 6.23 | 1 | |
| GLENCOE LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .208) | ( | .144 ) | S S : 103.00 | 67.57 | S S : 26.00 | 17.06 | 1 | 1 |
| 1000 CUBIC METRES: | .946 | | .656 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH | | | | T.PHOS: 7.50 | 4.92 | T.PHOS: 0.65 | 0.43 | 1 | |
| WATERCOURSE: NEWBIGGEN CREEK | | | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE # OF DATA | COMPLIANCE # MONTHS EFFLUENT EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| GODERICH<br>120000943<br>TOWN<br>GODERICH WPCP<br>CAPACITY (MIGD): ( 2.000)<br>1000 CUBIC METRES: 9.092<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 7400 | ( 2.460 )<br>11.182 | BOD: | 111.00 | 1,241.20 | BOD: | 5.50 | 61.50 | 12 | |
| | | | SS: | 224.00 | 2,504.77 | SS: | 10.50 | 117.41 | 12 | |
| | | | T.PHOS: | 4.40 | 49.20 | T.PHOS: | 0.86 | 9.62 | 12 | 3 |
| | | | WATERCOURSE: LAKE HURON | | | | | | | |
| GOSFIELD N. (COTTAM) *MIN*<br>110002005<br>TOWNSHIP<br>COTTAM LAGOON<br>CAPACITY (MIGD): ( .149)<br>1000 CUBIC METRES: .677<br>CONVENTIONAL LAGOON SEASONAL<br>PHOSPHORUS REMOVAL - BATCH | 591 | ( .065 )<br>.296 | BOD: | 91.00 | 26.94 | BOD: | 8.60 | 2.55 | 2 | |
| | | | SS: | 142.00 | 42.03 | SS: | 24.80 | 7.34 | 2 | 1 |
| | | | T.PHOS: | 5.60 | 1.66 | T.PHOS: | 0.72 | 0.21 | 2 | |
| | | | WATERCOURSE: MADDOX DRAIN TO BELLE R. | | | | | | | |
| HANOVER<br>120001461<br>TOWN<br>HANOVER WPCP<br>CAPACITY (MIGD): ( 1.400)<br>1000 CUBIC METRES: 6.364<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 6264 | ( .939 )<br>4.270 | BOD: | 195.00 | 832.65 | BOD: | 9.40 | 40.14 | 12 | 1 |
| | | | SS: | 206.00 | 879.62 | SS: | 7.50 | 32.03 | 12 | |
| | | | T.PHOS: | 8.00 | 34.16 | T.PHOS: | 0.86 | 3.67 | 12 | 3 |
| | | | WATERCOURSE: SAUGEEN RIVER | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| HARROW *MIN* 110002103 | | | | | | | | | |
| TOWN | 2281 | | | B O D: 126.00 | 153.72 | B O D: 5.00 | 6.10 | 3 | |
| HARROW LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .335) | ( .268 ) | | S S : 211.00 | 257.42 | 'S S : 8.70 | 10.61 | 3 | |
| 1000 CUBIC METRES: | 1.523 | 1.220 | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 5.90 | 7.20 | T.PHOS: 0.95 | 1.16 | 3 | 1 |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | |
| | | | | WATERCOURSE: CEDAR CREEK | | | | | |
| HENSALL *MIN* 110000926 | | | | | | | | | |
| VILLAGE | 1000 | | | B O D: 90.00 | 48.78 | B O D: 7.50 | 4.07 | 3 | |
| HENSALL LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .137) | ( .119 ) | | S S : 129.00 | 69.92 | S S : 27.90 | 15.12 | 3 | 1 |
| 1000 CUBIC METRES: | .623 | .542 | | | | | | | |
| CONVENTIONAL LAGOON ANNUAL | | | | T.PHOS: 5.70 | 3.09 | T.PHOS: 0.91 | 0.49 | 3 | |
| | | | | WATERCOURSE: BLACK CK TO AUSABLE R. | | | | | |
| INGERSOLL (NEW) *MIN* 110003969 | | | | | | | | | |
| TOWN | 5300 | | | B O D: 161.00 | 700.67 | B O D: 6.60 | 28.72 | 12 | |
| INGERSOLL NEW WPCP | | | | | | | | | |
| CAPACITY (MIGD): | ( 1.500) | ( .957 ) | | S S : 324.00 | 1,410.05 | S S : 6.70 | 29.16 | 12 | |
| 1000 CUBIC METRES: | 6.819 | 4.352 | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 6.70 | 29.16 | T.PHOS: 0.87 | 3.79 | 12 | 3 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| | | | | WATERCOURSE: THAMES RIVER | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| INGERSOLL (OLD) #MIN# 110003978<br>TOWN<br>INGERSOLL OLD WPCP<br>CAPACITY (MIGD): ( .750)<br>1000 CUBIC METRES: 3.410<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 2700 | ( .329 )<br>1.496 | B O D: 161.00<br>S S : 324.00<br>T.PHOS: 6.70 | 240.86<br>484.70<br>10.02 | B O D: 5.40<br>S S : 10.60<br>T.PHOS: 0.74 | 8.08<br>15.86<br>1.11 | 12<br>12<br>12 | 4 |
| WATERCOURSE: THAMES RIVER | | | | | | | | |
| KINCARDINE #MIN# 110000864<br>TOWN<br>KINCARDINE LAGOON<br>CAPACITY (MIGD): ( 1.300)<br>1000 CUBIC METRES: 5.910<br>AERATED CELL PLUS LAGOON<br>CONTINUOUS DISCHARGE | 5930 | ( .515 )<br>2.340 | B O D: 94.00<br>S S : 119.00<br>T.PHOS: 9.20 | 219.96<br>278.46<br>21.53 | B O D: 12.40<br>S S : 9.70<br>T.PHOS: 3.08 | 29.02<br>22.70<br>7.21 | 12<br>12<br>12 | |
| WATERCOURSE: LAKE HURON | | | | | | | | |
| KINGSVILLE 120001078<br>TOWN<br>KINGSVILLE LAGOON<br>CAPACITY (MIGD): ( .391)<br>1000 CUBIC METRES: 1.777<br>CONVENTIONAL LAGOON SEASONAL<br>PHOSPHORUS REMOVAL - BATCH | 5200 | ( 1.034 )<br>4.702 | B O D: 0.00<br>S S : 0.00<br>T.PHOS: 0.00 | 0.00<br>0.00<br>0.00 | B O D: 17.20<br>S S : 47.20<br>T.PHOS: 0.96 | 80.87<br>221.93<br>4.51 | 1<br>1<br>1 | 1 |
| WATERCOURSE: WIGLE CREEK<br>REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER / EXISTING CAPACITY AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD) 1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | CONC. (MG/L) | INFLUENT LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE | CONC. (MG/L) | EFFLUENT LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| LEAMINGTON<br>120001069<br>TOWN | 12600 | | B O D: | 125.00 | 849.75 | B O D: | 10.90 | 74.10 | 12 | 1 |
| LEAMINGTON WPCP<br>CAPACITY (MIGD): ( 4.200) | | ( 1.496 ) | S S : | 208.00 | 1,413.98 | S S : | 14.00 | 95.17 | 12 | 2 |
| 1000 CUBIC METRES: 19.093 | | 6.798 | | | | | | | | |
| EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | | | T.PHOS: | 1.70 | 11.56 | T.PHOS: | 0.98 | 6.66 | 12 | 4 |
| | | | WATERCOURSE: LAKE ERIE | | | | | | | |
| LISTOWEL **MIN**<br>110000409<br>TOWN | 4968 | | B O D: | 268.00 | 1,647.13 | B O D: | 12.60 | 77.44 | 5 | |
| LISTOWEL LAGOON CONT DIS (SUMMER SPRAY)<br>CAPACITY (MIGD): ( 1.082) | | ( 1.352 ) | S S : | 208.00 | 1,278.37 | S S : | 19.00 | 116.77 | 5 | 1 |
| 1000 CUBIC METRES: 4.919 | | 6.146 | | | | | | | | |
| AERATED CELL PLUS LAGOON<br>LAGOON AND SPRAY<br>PHOSPHORUS REMOVAL-CONTINUOUS | | | T.PHOS: | 3.90 | 23.97 | T.PHOS: | 0.70 | 4.30 | 5 | 1 |
| | | | WATERCOURSE: CHAPMAN DRAIN | | | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | |
| LOBO(KILWORTH HEIGHTS)** **MIN**<br>110003362<br>TOWNSHIP | 48 | | B O D: | 51.00 | 4.18 | B O D: | 11.70 | 0.96 | 12 | 2 |
| KILWORTH HEIGHTS WPCP<br>CAPACITY (MIGD): ( .058) | | ( .018 ) | S S : | 115.00 | 9.43 | S S : | 8.80 | 0.72 | 12 | |
| 1000 CUBIC METRES: .264 | | .082 | | | | | | | | |
| EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS<br>EFFLUENT POLISHING | | | T.PHOS: | 2.00 | 0.16 | T.PHOS: | 1.02 | 0.08 | 12 | 7 |
| | | | WATERCOURSE: THAMES RIVER | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LONDON (ADELAIDE)<br>120000872<br>CITY<br>ADELAIDE WPCP<br>CAPACITY (MIGD): ( 4.000)<br>1000 CUBIC METRES: 18.184<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 34766 | ( 3.756 )<br>17.074 | BOD:<br>SS:<br>T.PHOS: | 99.00<br>143.00<br>4.80 | 1,690.33<br>2,441.58<br>81.96 | BOD:<br>SS:<br>T.PHOS: | 2.50<br>5.30<br>0.86 | 42.69<br>90.49<br>14.68 | 12<br>12<br>12 | | |
| WATERCOURSE: THAMES RIVER | | | | | | | | | | | |
| LONDON (GREENWAY)<br>120000863<br>CITY<br>GREENWAY WPCP<br>CAPACITY (MIGD): ( 27.350)<br>1000 CUBIC METRES: 124.333<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 164614 | ( 29.033 )<br>131.966 | BOD:<br>SS:<br>T.PHOS: | 190.00<br>157.00<br>5.60 | 25,073.54<br>20,718.66<br>739.01 | BOD:<br>SS:<br>T.PHOS: | 5.10<br>9.50<br>0.77 | 673.03<br>1,253.68<br>101.61 | 12<br>12<br>12 | | 2 |
| WATERCOURSE: THAMES RIVER | | | | | | | | | | | |
| LONDON (OXFORD)<br>120000854<br>CITY<br>OXFORD WPCP<br>CAPACITY (MIGD): ( 1.200)<br>1000 CUBIC METRES: 5.455<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 13329 | ( 1.182 )<br>5.374 | BOD:<br>SS:<br>T.PHOS: | 115.00<br>189.00<br>7.20 | 618.01<br>1,015.69<br>38.69 | BOD:<br>SS:<br>T.PHOS: | 4.50<br>7.80<br>0.74 | 24.18<br>41.92<br>3.98 | 12<br>12<br>12 | | |
| WATERCOURSE: THAMES RIVER | | | | | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | EFFLUENT ANNUAL AVERAGE | | MONTHS OF EFFLUENT DATA | MONTHS EXCEEDED | COMPLIANCE |
|---|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | | |
| LONDON (POTTERSBURG)<br>120000836<br>CITY<br>POTTERSBURG WPCP<br>CAPACITY (MIGD): ( 4.850)<br>1000 CUBIC METRES: 22.048<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 25979 | ( 3.831 )<br>17.414 | B O D: 94.00<br>S S : 102.00<br>T.PHOS: 4.80 | 1,636.92<br>1,776.23<br>83.59 | B O D: 2.70<br>S S : 3.90<br>T.PHOS: 0.63 | 47.02<br>67.91<br>10.97 | 12<br>12<br>12 | | 1 |
| WATERCOURSE: THAMES RIVER | | | | | | | | | |
| LONDON (VAUXHALL)<br>120000845<br>CITY<br>VAUXHALL WPCP<br>CAPACITY (MIGD): ( 4.600)<br>1000 CUBIC METRES: 20.912<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 23154 | ( 4.303 )<br>19.561 | B O D: 181.00<br>S S : 173.00<br>T.PHOS: 4.70 | 3,540.54<br>3,384.05<br>91.94 | B O D: 3.80<br>S S : 8.30<br>T.PHOS: 0.62 | 74.33<br>162.36<br>12.13 | 12<br>12<br>12 | | 1 |
| WATERCOURSE: THAMES RIVER | | | | | | | | | |
| LUCAN *MIN*<br>110000855<br>VILLAGE<br>LUCAN LAGOON<br>CAPACITY (MIGD): ( .082)<br>1000 CUBIC METRES: .373<br>CONVENTIONAL LAGOON SEASONAL | 1402 | ( .210 )<br>.955 | B O D: 72.00<br>S S : 88.00<br>T.PHOS: 5.00 | 68.76<br>84.04<br>4.78 | B O D: 15.20<br>S S : 44.30<br>T.PHOS: 0.61 | 14.52<br>42.31<br>0.58 | 5<br>5<br>5 | 1<br>2 | |
| WATERCOURSE: LITTLE AUSABLE RIVER | | | | | | | | | |
| REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | EFFLUENT ANNUAL AVERAGE | | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EFFLUENT EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| **HAIDSTONE (BELLE RIVER) #MIN#**<br>110002078<br>TOWNSHIP | 8207 | | | | | | | |
| BELLE RIVER-HAIDSTONE WPCP<br>CAPACITY (MIGD): ( 1.500)<br>1000 CUBIC METRES: 6.819<br>EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | | ( 1.397 )<br>6.350 | B O D: 78.00<br>S S : 91.00<br>T.PHOS: 3.10 | 495.30<br>577.85<br>19.69 | B O D: 4.90<br>S S : 11.00<br>T.PHOS: 0.84 | 31.12<br>69.85<br>5.33 | 12<br>12<br>12 | 3 |
| WATERCOURSE: LAKE ST.CLAIR | | | | | | | | |
| **HARKDALE #MIN#**<br>110000418<br>VILLAGE | 1260 | | | | | | | |
| HARKDALE LAGOON (NO FLOW METER)<br>CAPACITY (MIGD): ( .247)<br>1000 CUBIC METRES: 1.123<br>AERATED LAGOON<br>PHOSPHORUS REMOVAL-CONTINUOUS<br>EFFLUENT POLISHING | | ( .149 )<br>.675 | B O D: 97.00<br>S S : 136.00<br>T.PHOS: 7.10 | 65.48<br>91.80<br>4.79 | B O D: 4.80<br>S S : 18.00<br>T.PHOS: 0.37 | 3.24<br>12.15<br>0.25 | 2<br>2<br>2 | |
| WATERCOURSE: ROCKY SAUGEEN RIVER | | | | | | | | |
| **MCGILLIVRAY (PARKHILL) #MIN#**<br>110002461<br>TOWNSHIP | 1300 | | | | | | | |
| PARKHILL LAGOON<br>CAPACITY (MIGD): ( .243)<br>1000 CUBIC METRES: 1.105<br>CONVENTIONAL LAGOON SEASONAL<br>PHOSPHORUS REMOVAL - BATCH | | ( .145 )<br>.657 | B O D: 142.00<br>S S : 143.00<br>T.PHOS: 7.30 | 93.29<br>93.95<br>4.80 | B O D: 10.80<br>S S : 32.70<br>T.PHOS: 1.79 | 7.10<br>21.48<br>1.18 | 2<br>2<br>2 | 1<br>2 |
| WATERCOURSE: PARKHILL CREEK | | | | | | | | |
| REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER / EXISTING CAPACITY AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD) 1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | EFFLUENT ANNUAL AVERAGE | | COMPLIANCE # MONTHS OF DATA | # MONTHS EFFLUENT EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| MEAFORD #MIN# 110000445 | | | | | | | | |
| TOWN | 4014 | | B O D: | 73.00 | 237.54 | B O D: | 11.10 | 36.12 | 12 | |
| MEAFORD WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( .860) | | ( .716 ) | S S : | 145.00 | 471.83 | S S : | 8.40 | 27.33 | 12 | |
| 1000 CUBIC METRES: 3.910 | | 3.254 | | | | | | | | |
| HIGH RATE | | | T.PHOS: | 4.40 | 14.32 | T.PHOS: | 1.80 | 5.86 | 12 | |
| | | | | | | | | | | |
| | | | WATERCOURSE: GEORGIAN BAY | | | | | | | |
| MILDMAY #MIN# 110002194 | | | | | | | | |
| VILLAGE | 969 | | B O D: | 118.00 | 46.61 | B O D: | 3.80 | 1.50 | 12 | |
| MILDMAY WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( .213) | | ( .087 ) | S S : | 158.00 | 62.41 | S S : | 7.00 | 2.77 | 12 | |
| 1000 CUBIC METRES: .968 | | .395 | | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: | 7.10 | 2.80 | T.PHOS: | 0.60 | 0.24 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: OTTER CREEK | | | | | | | |
| MILVERTON 110001079 | | | | | | | | |
| VILLAGE | 1498 | | B O D: | 307.00 | 203.54 | B O D: | 2.40 | 1.59 | 2 | |
| MILVERTON LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .223) | | ( .146 ) | S S : | 232.00 | 153.82 | S S : | 6.30 | 4.18 | 2 | |
| 1000 CUBIC METRES: 1.014 | | .663 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: | 11.80 | 7.82 | T.PHOS: | 0.54 | 0.36 | 2 | |
| AERATED CELL PLUS LAGOON | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: BOYLE DRAIN | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MITCHELL *MIN* 110000472 | | | | | | | | | | | |
| TOWN | 2745 | | | B O D: 286.00 | 771.06 | | B O D: 10.40 | 28.04 | 4 | | |
| MITCHELL LAGOON | | | | | | | | | | | |
| CAPACITY (MIGD): ( .784) | | ( .593 ) | | S S : 286.00 | 771.06 | | S S : 24.30 | 65.51 | 4 | 1 | |
| 1000 CUBIC METRES: 3.564 | | 2.696 | | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL-CONTINUOUS | | | | T.PHOS: 8.90 | 23.99 | | T.PHOS: 0.36 | 0.97 | 4 | | |
| | | | | WATERCOURSE: THAMES RIVER | | | | | | | |
| MOORE (BRIGDEN) *MIN* 110002023 | | | | | | | | | | | |
| TOWNSHIP | 641 | | | B O D: 267.00 | 48.33 | | B O D: 6.88 | 1.25 | 1 | | |
| BRIGDEN P.V. LAGOON | | | | | | | | | | | |
| CAPACITY (MIGD): ( .074) | | ( .040 ) | | S S : 281.00 | 50.86 | | S S : 39.10 | 7.08 | 1 | | |
| 1000 CUBIC METRES: .336 | | .181 | | | | | | | | | |
| CONVENTIONAL LAGOON ANNUAL PHOSPHORUS REMOVAL - BATCH | | | | T.PHOS: 10.20 | 1.85 | | T.PHOS: 1.09 | 0.20 | 1 | 1 | |
| | | | | WATERCOURSE: BEAR CREEK | | | | | | | |
| | | | | REMEDIAL MEASURE: MONITOR T.PHOS CLOSELY | | | | | | | |
| MOORE (CORUNNA) *MIN* 110000481 | | | | | | | | | | | |
| TOWNSHIP | 3405 | | | B O D: 124.00 | 352.90 | | B O D: 9.10 | 25.90 | 12 | | |
| CORUNNA P.V. WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): ( 1.000) | | ( .626 ) | | S S : 138.00 | 392.75 | | S S : 9.50 | 27.04 | 12 | 1 | |
| 1000 CUBIC METRES: 4.546 | | 2.846 | | | | | | | | | |
| EXTENDED AERATION PHOSPHORUS REMOVAL-CONTINUOUS | | | | T.PHOS: 7.80 | 22.20 | | T.PHOS: 0.85 | 2.42 | 12 | 5 | |
| | | | | WATERCOURSE: ST. CLAIR RIVER | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | MONTHS OF EFFLUENT DATA | MONTHS EXCEEDED | COMPLIANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MOORE (COURTRIGHT) | | | | | | | | | | | |
| 110001818 | | | | | | | | | | | |
| TOWNSHIP | 1526 | | | | | | | | | | |
| COURTRIGHT MPCP | | | | B O D: | 140.00 | 122.78 | B O D: | 11.30 | 9.91 | 12 | |
| CAPACITY (MIGD): | ( .125) | ( | .193 ) | S S : | 172.00 | 150.84 | S S : | 15.00 | 13.16 | 12 | 2 |
| 1000 CUBIC METRES: | .568 | | .877 | T.PHOS: | 8.10 | 7.10 | T.PHOS: | 1.05 | 0.92 | 12 | 6 |
| EXTENDED AERATION | | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | | | WATERCOURSE: ST CLAIR RIVER | | | | | |
| NORMANBY (NEUSTADT) | | | | | | | | | | | |
| 110002443 | | | | | | | | | | | |
| TOWNSHIP | 451 | | | | | | | | | | |
| NEUSTADT LAGOON | | | | B O D: | 139.00 | 17.79 | B O D: | 1.00 | 0.13 | 1 | |
| CAPACITY (MIGD): | ( .092) | ( | .028 ) | S S : | 185.00 | 23.68 | S S : | 6.40 | 0.82 | 1 | |
| 1000 CUBIC METRES: | .418 | | .128 | T.PHOS: | 7.80 | 1.00 | T.PHOS: | 0.56 | 0.07 | 1 | |
| CONVENTIONAL LAGOON SEASONAL | | | | | | | | | | | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | | | |
| | | | | | | WATERCOURSE: SOUTH SAUGEEN RIVER | | | | | |
| NORWICH | | | | | | | | | | | |
| 110001460 | | | | | | | | | | | |
| TOWNSHIP | 2156 | | | | | | | | | | |
| NORWICH LAGOON | | | | B O D: | 207.00 | 190.65 | B O D: | 18.10 | 16.67 | 4 | 1 |
| CAPACITY (MIGD): | ( .219) | ( | .203 ) | S S : | 241.00 | 221.96 | S S : | 30.60 | 28.18 | 4 | 1 |
| 1000 CUBIC METRES: | .996 | | .921 | T.PHOS: | 8.50 | 7.83 | T.PHOS: | 0.50 | 0.46 | 4 | |
| CONVENTIONAL LAGOON SEASONAL | | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | | | WATERCOURSE: BIG OTTER CREEK | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|
| OIL SPRINGS *MIN* 110001998 | | | | | | | | | |
| VILLAGE | 605 | | | | | | | | |
| OIL SPRINGS LAGOON | | | BOD: | 116.00 | 22.16 | BOD: | 0.00 | 0.00 | |
| CAPACITY (MIGD): ( .060) | | ( .042 ) | SS: | 107.00 | 20.44 | SS: | 0.00 | 0.00 | |
| 1000 CUBIC METRES: .273 | | .191 | T.PHOS: | 7.30 | 1.39 | T.PHOS: | 0.00 | 0.00 | |
| CONVENTIONAL LAGOON ANNUAL PHOSPHORUS REMOVAL - BATCH | | | | | | | | | |
| | | | WATERCOURSE: BLACK CREEK | | | | | | |
| OWEN SOUND *MIN* 110000551 | | | | | | | | | |
| CITY | 19624 | | | | | | | | |
| OWEN SOUND WPCP | | | BOD: | 73.00 | 1,644.18 | BOD: | 23.80 | 536.05 | 12 |
| CAPACITY (MIGD): ( 5.400) | | ( 4.955 ) | SS: | 108.00 | 2,432.48 | SS: | 20.30 | 457.22 | 12 |
| 1000 CUBIC METRES: 24.548 | | 22.523 | T.PHOS: | 4.20 | 94.60 | T.PHOS: | 0.85 | 19.14 | 12 3 |
| PRIMARY PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| | | | WATERCOURSE: GEORGIAN BAY | | | | | | |
| PAISLEY *MIN* 110001907 | | | | | | | | | |
| VILLAGE | 653 | | | | | | | | |
| PAISLEY WPCP | | | BOD: | 100.00 | 37.00 | BOD: | 5.00 | 1.85 | 12 |
| CAPACITY (MIGD): ( .155) | | ( .081 ) | SS: | 159.00 | 58.83 | SS: | 7.90 | 2.92 | 12 1 |
| 1000 CUBIC METRES: .705 | | .370 | T.PHOS: | 5.40 | 2.00 | T.PHOS: | 0.36 | 0.13 | 12 |
| OXIDATION DITCH | | | | | | | | | |
| | | | WATERCOURSE: SAUGEEN RIVER | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PETROLIA **MIN* 110000579 | | | | | | | | | | | |
| TOWN | 4186 | | | B O D: 112.00 | 165.09 | | B O D: 4.90 | 7.22 | 12 | | |
| PETROLIA WPCP + LAGOON + FILTER | | | | | | | | | | | |
| CAPACITY (MIGD): ( .700) | | ( .324 ) | | S S : 115.00 | 169.51 | | S S : 7.80 | 11.50 | 12 | | |
| 1000 CUBIC METRES: 3.182 | | 1.474 | | | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 2.60 | 3.83 | | T.PHOS: 0.64 | 0.94 | 12 | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | | | |
| | | | | | WATERCOURSE: BEAR CREEK | | | | | | |
| PLYMPTON (WYOMING) ** *MIN* 110002489 | | | | | | | | | | | |
| TOWNSHIP | 1740 | | | B O D: 107.00 | 47.08 | | B O D: 13.00 | 5.72 | 12 | 1 | |
| WYOMING WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): ( .248) | | ( .097 ) | | S S : 116.00 | 51.04 | | S S : 10.00 | 4.40 | 12 | 1 | |
| 1000 CUBIC METRES: 1.127 | | .440 | | | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 3.80 | 1.67 | | T.PHOS: 1.00 | 0.44 | 12 | 4 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | | | |
| | | | | | WATERCOURSE: STONEHOUSE DRAIN | | | | | | |
| POINT EDWARD *MIN* 110000597 | | | | | | | | | | | |
| VILLAGE | 2373 | | | B O D: 146.00 | 317.99 | | B O D: 53.40 | 116.31 | 12 | 5 | |
| POINT EDWARD WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): ( .570) | | ( .479 ) | | S S : 454.00 | 988.81 | | S S : 41.40 | 90.17 | 12 | | |
| 1000 CUBIC METRES: 2.591 | | 2.178 | | | | | | | | | |
| PRIMARY | | | | T.PHOS: 15.50 | 33.76 | | T.PHOS: 2.47 | 5.38 | 12 | 11 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | | WATERCOURSE: ST. CLAIR RIVER | | | | | | |
| | | | | | REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| PORT BURWELL *MIN* 110001319 | | | | | | | | | |
| VILLAGE | 1007 | | | | | | | | |
| PORT BURWELL WPCP | | | | | | | | | |
| CAPACITY (MIGD): | | ( .116) | ( .051 ) | B O D: | 158.00 | 36.81 | B O D: 6.40 | 1.49 | 4 | |
| 1000 CUBIC METRES: | | .527 | .233 | S S : | 166.00 | 38.68 | S S : 11.30 | 2.63 | 4 | |
| EXTENDED AERATION | | | | T.PHOS: | 9.90 | 2.31 | T.PHOS: 1.98 | 0.46 | 4 | 3 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | WATERCOURSE: BIG OTTER CR.- LAKE ERIE | | | | | | |
| | | | | REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | | |
| PORT ELGIN 120001470 | | | | | | | | | |
| TOWN | 6210 | | | | | | | | |
| PORT ELGIN WPCP | | | | | | | | | |
| CAPACITY (MIGD): | | ( 1.420) | ( .906 ) | B O D: | 59.00 | 242.90 | B O D: 8.80 | 36.23 | 12 | 1 |
| 1000 CUBIC METRES: | | 6.455 | 4.117 | S S : | 82.00 | 337.59 | S S : 2.60 | 10.70 | 12 | |
| OXIDATION DITCH | | | | T.PHOS: | 3.50 | 14.41 | T.PHOS: 1.66 | 6.83 | 11 | |
| | | | | WATERCOURSE: SAUGEEN RIVER | | | | | | |
| PORT STANLEY *MIN* 110001373 | | | | | | | | | |
| VILLAGE | 2416 | | | | | | | | |
| PORT STANLEY LAGOON | | | | B O D: | 106.00 | 146.28 | B O D: 18.00 | 24.84 | 4 | |
| CAPACITY (MIGD): | | ( .329) | ( .304 ) | S S : | 105.00 | 144.90 | S S : 61.60 | 85.01 | 4 | 4 |
| 1000 CUBIC METRES: | | 1.496 | 1.380 | T.PHOS: | 4.40 | 6.07 | T.PHOS: 0.82 | 1.13 | 4 | 1 |
| CONVENTIONAL LAGOON SEASONAL | | | | | | | | | | |
| PHOSPHORUS REMOVAL - BATCH | | | | WATERCOURSE: DITCH TO KETTLE CREEK | | | | | | |
| | | | | REMEDIAL MEASURE: MEASURE BEING EVALUATED | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| RALEIGH TILBURY E(MERLIN *MIN*<br>110000935 | | | | | | | | | |
| TOWNSHIP | 523 | | | | | | | | |
| MERLIN PV LAGOON | | | | B O D: 237.00 | 43.61 | B O D: 3.60 | 0.66 | 2 | |
| CAPACITY (MIGD): | ( .102) | ( | .040 ) | S S : 247.00 | 45.45 | S S : 21.60 | 3.97 | 2 | 1 |
| 1000 CUBIC METRES: | .464 | | .184 | | | | | | |
| CONVENTIONAL LAGOON ANNUAL | | | | T.PHOS: 7.50 | 1.38 | T.PHOS: 0.35 | 0.06 | 2 | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | |
| | | | | WATERCOURSE: FOXTON DR.- JEANETTES CK | | | | | |
| RIDGETOWN *MIN*<br>110001364 | | | | | | | | | |
| TOWN | 3039 | | | | | | | | |
| RIDGETOWN LAGOON | | | | B O D: 138.00 | 151.52 | B O D: 20.60 | 22.62 | 2 | 1 |
| CAPACITY (MIGD): | ( .294) | ( | .242 ) | S S : 157.00 | 172.39 | S S : 83.00 | 91.13 | 2 | 2 |
| 1000 CUBIC METRES: | 1.337 | | 1.098 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 7.30 | 8.02 | T.PHOS: 0.78 | 0.86 | 2 | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | |
| | | | | WATERCOURSE: GAWNE DR TO MCGREGOR CK | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | |
| RODNEY *MIN*<br>110001667 | | | | | | | | | |
| VILLAGE | 1007 | | | | | | | | |
| RODNEY LAGOON | | | | B O D: 333.00 | 159.51 | B O D: 33.30 | 15.95 | 3 | 1 |
| CAPACITY (MIGD): | ( .119) | ( | .105 ) | S S : 171.00 | 81.91 | S S : 337.40 | 161.61 | 3 | 3 |
| 1000 CUBIC METRES: | .541 | | .479 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 8.20 | 3.93 | T.PHOS: 2.67 | 1.28 | 3 | 2 |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | |
| | | | | WATERCOURSE: SIXTEEN MILE CK. | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| ROMNEY (WHEATLY) *MIN* | | | | | | | | | | |
| 110003246 | | | | | | | | | | |
| VILLAGE | 1528 | | | B O D: 330.00 | 163.02 | B O D: | 3.70 | 1.83 | 12 | |
| WHEATLY WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( .605) | ( | .109 ) | S S : 268.00 | 132.39 | S S : | 9.60 | 4.74 | 12 | 1 |
| 1000 CUBIC METRES: | 2.750 | | .494 | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 9.40 | 4.64 | T.PHOS: | 1.31 | 0.65 | 12 | 6 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | WATERCOURSE: LAKE ERIE | | | | | | |
| | | | | REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | | |
| SARNIA | | | | | | | | | | |
| 120000907 | | | | | | | | | | |
| CITY | 64475 | | | B O D: 120.00 | 6,529.20 | B O D: | 42.50 | 2,312.43 | 11 | |
| SARNIA WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( 14.500) | ( | 11.970 ) | S S : 199.00 | 10,827.59 | S S : | 24.90 | 1,354.81 | 12 | |
| 1000 CUBIC METRES: | 65.917 | | 54.410 | | | | | | | |
| PRIMARY | | | | T.PHOS: 5.20 | 282.93 | T.PHOS: | 0.82 | 44.62 | 12 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | WATERCOURSE: ST. CLAIR RIVER | | | | | | |
| SARNIA (BRIGHT'S GROVE) *MIN* | | | | | | | | | | |
| 110001989 | | | | | | | | | | |
| TOWNSHIP | 2439 | | | B O D: 101.00 | 106.35 | B O D: | 2.80 | 2.95 | 1 | |
| BRIGHT'S GROVE LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | ( .387) | ( | .232 ) | S S : 288.00 | 303.26 | S S : | 6.50 | 6.84 | 1 | |
| 1000 CUBIC METRES: | 1.759 | | 1.053 | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 7.30 | 7.69 | T.PHOS: | 2.19 | 2.31 | 1 | |
| | | | | WATERCOURSE: CREEK TO L.HURON | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT | ANNUAL AVERAGE CONC. (MG/L) | ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT | ANNUAL AVERAGE CONC. (MG/L) | ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE: MONTHS OF DATA | COMPLIANCE: MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| SEAFORTH *MIN* 110001177 | | | | | | | | | | |
| TOWN | 2116 | | | | | | | | | |
| SEAFORTH LAGOON | | | B O D: | 71.00 | 121.20 | B O D: | 10.60 | 18.09 | 4 | |
| CAPACITY (MIGD): ( .223) | | ( .376 ) | | | | | | | | |
| 1000 CUBIC METRES: 1.014 | | 1.707 | S S : | 143.00 | 244.10 | S S : | 13.00 | 22.19 | 4 | |
| CONVENTIONAL LAGOON SEASONAL | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | T.PHOS: | 4.30 | 7.34 | T.PHOS: | 1.22 | 2.08 | 4 | 2 |
| | | | WATERCOURSE: CRESSWELL CREEK | | | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | |
| SOMBRA (PORT LAMBTON) *MIN* 110001694 | | | | | | | | | | |
| TOWNSHIP | 900 | | | | | | | | | |
| PORT LAMBTON LAGOON | | | B O D: | 128.00 | 62.98 | B O D: | 13.30 | 6.54 | 2 | |
| CAPACITY (MIGD): ( .238) | | ( .108 ) | | | | | | | | |
| 1000 CUBIC METRES: 1.082 | | .492 | S S : | 230.00 | 113.16 | S S : | 101.10 | 49.74 | 2 | 2 |
| CONVENTIONAL LAGOON SEASONAL | | | | | | | | | | |
| PHOSPHORUS REMOVAL - BATCH | | | T.PHOS: | 6.70 | 3.30 | T.PHOS: | 0.54 | 0.27 | 2 | |
| | | | WATERCOURSE: MARSHY CK.TO ST.CLAIR R. | | | | | | | |
| | | | REMEDIAL MEASURE: MEASURE BEING EVALUATED | | | | | | | |
| SOMBRA (PORT SOMBRA) *MIN* 110001685 | | | | | | | | | | |
| TOWNSHIP | 382 | | | | | | | | | |
| SOMBRA LAGOON | | | B O D: | 103.00 | 21.73 | B O D: | 4.10 | 0.87 | 1 | |
| CAPACITY (MIGD): ( .213) | | ( .046 ) | | | | | | | | |
| 1000 CUBIC METRES: .968 | | .211 | S S : | 114.00 | 24.05 | S S : | 252.80 | 53.34 | 1 | 1 |
| CONVENTIONAL LAGOON SEASONAL | | | | | | | | | | |
| PHOSPHORUS REMOVAL - BATCH | | | T.PHOS: | 6.10 | 1.29 | T.PHOS: | 0.40 | 0.08 | 1 | |
| | | | WATERCOURSE: ST. CLAIR RIVER | | | | | | | |
| | | | REMEDIAL MEASURE: MEASURE BEING EVALUATED | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SOUTHAMPTON #MIN# 110001453 | | | | | | | | | | | |
| TOWN | 2680 | | | B O D: | 75.00 | 97.73 | B O D: | 3.20 | 4.17 | 12 | |
| SOUTHAMPTON WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .670) | ( .287 ) | | S S : | 108.00 | 140.72 | S S : | 5.10 | 6.65 | 12 | |
| 1000 CUBIC METRES: | 3.046 | 1.303 | | | | | | | | | |
| OXIDATION DITCH | | | | T.PHOS: | 3.80 | 4.95 | T.PHOS: | 2.57 | 3.35 | 12 | |
| | | | | WATERCOURSE: SAUGEEN R. | | | | | | | |
| ST MARYS #MIN# 110001275 | | | | | | | | | | | |
| SEPARATED TOWN | 4355 | | | B O D: | 208.00 | 801.63 | B O D: | 7.20 | 27.75 | 12 | |
| ST MARYS WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .800) | ( .848 ) | | S S : | 158.00 | 608.93 | S S : | 4.30 | 16.57 | 12 | |
| 1000 CUBIC METRES: | 3.637 | 3.854 | | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: | 4.90 | 18.88 | T.PHOS: | 0.58 | 2.24 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | WATERCOURSE: THAMES RIVER | | | | | | | |
| ST. THOMAS 120001112 | | | | | | | | | | | |
| CITY | 27482 | | | B O D: | 89.00 | 1,686.02 | B O D: | 6.40 | 121.24 | 12 | |
| ST. THOMAS WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): | ( 9.000) | ( 4.168 ) | | S S : | 145.00 | 2,746.88 | S S : | 8.20 | 155.34 | 12 | 1 |
| 1000 CUBIC METRES: | 40.914 | 18.944 | | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: | 5.20 | 98.51 | T.PHOS: | 1.13 | 21.41 | 12 | 5 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | WATERCOURSE: KETTLE CREEK | | | | | | | |
| | | | | REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE # OF EFFLUENT DATA | COMPLIANCE # MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| ST.EDMUNDS (TOBERMORY)<br>120001577 | | | | | NO 1985 DISCHARGE | | | |
| TOWNSHIP | 100 | | B O D: 0.00 | | B O D: 0.00 | | | |
| TOBERMORY LAGOON<br>CAPACITY (MIGD): ( .037) | | ( ) | S S : 0.00 | | S S : 0.00 | | | |
| 1000 CUBIC METRES: .168<br>AERATED CELL PLUS LAGOON<br>EXFILTRATION LAGOON | | | T.PHOS: 0.00 | | T.PHOS: 0.00 | | | |
| | | | WATERCOURSE: NO DISC.TO SURFACE WATER | | | | | |
| STEPHEN (GRAND BEND) *MIN*<br>110002452 | | | | | | | | |
| TOWNSHIP | 3060 | | B O D: 167.00 | 126.25 | B O D: 7.90 | 5.97 | 2 | |
| GRAND BEND LAGOON<br>CAPACITY (MIGD): ( .417) | | ( .166 ) | S S : 217.00 | 164.05 | S S : 100.70 | 76.13 | 2 | 2 |
| 1000 CUBIC METRES: 1.896<br>CONVENTIONAL LAGOON SEASONAL<br>PHOSPHORUS REMOVAL - BATCH | | .756 | T.PHOS: 4.20 | 3.18 | T.PHOS: 0.66 | 0.50 | 2 | |
| | | | WATERCOURSE: AUSABLE RIVER | | | | | |
| | | | REMEDIAL MEASURE: MEASURE BEING EVALUATED | | | | | |
| STEPHEN (HURON PARK) *MIN*<br>110003486 | | | | | | | | |
| TOWNSHIP | 1400 | | B O D: 149.00 | 227.08 | B O D: 9.20 | 14.02 | 12 | 1 |
| HURON PARK WPCP<br>CAPACITY (MIGD): ( .400) | | ( .335 ) | S S : 134.00 | 204.22 | S S : 9.30 | 14.17 | 12 | 1 |
| 1000 CUBIC METRES: 1.818<br>CONVENTIONAL ACTIVATED SLUDGE | | 1.524 | T.PHOS: 3.60 | 5.49 | T.PHOS: 1.44 | 2.19 | 12 | |
| | | | WATERCOURSE: AUSABLE R | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT | ANNUAL AVERAGE CONC. (MG/L) | ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT | ANNUAL AVERAGE CONC. (MG/L) | ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| STRATFORD **  #MIN#<br>110000702 | | | | | | | | | | |
| CITY | 25806 | | B O D: | 111.00 | 2,775.89 | B O D: | 13.10 | 327.60 | 12 | 1 |
| STRATFORD WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 6.000) | | ( 5.502 ) | S S : | 174.00 | 4,351.39 | S S : | 1.00 | 25.01 | 12 | |
| 1000 CUBIC METRES: 27.276 | | 25.008 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: | 4.60 | 115.04 | T.PHOS: | 0.22 | 5.50 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | | |
| | | | WATERCOURSE: AVON RIVER | | | | | | | |
| STRATHROY<br>120000827 | | | | | | | | | | |
| TOWN | 8118 | | B O D: | 135.00 | 590.90 | B O D: | 5.70 | 24.95 | 12 | |
| STRATHROY LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( 1.140) | | ( .963 ) | S S : | 274.00 | 1,199.30 | S S : | 7.90 | 34.58 | 12 | 1 |
| 1000 CUBIC METRES: 5.182 | | 4.377 | | | | | | | | |
| AERATED LAGOON | | | T.PHOS: | 7.00 | 30.64 | T.PHOS: | 1.29 | 5.65 | 12 | 8 |
| CONTINUOUS DISCHARGE | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: SYDENHAM RIVER | | | | | | | |
| | | | REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | | | |
| THAMESVILLE  #MIN#<br>110002470 | | | | | | | | | | |
| VILLAGE | 905 | | B O D: | 214.00 | 43.01 | B O D: | 9.40 | 1.89 | 7 | 1 |
| THAMESVILLE WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( .180) | | ( .044 ) | S S : | 198.00 | 39.80 | S S : | 8.60 | 1.73 | 7 | |
| 1000 CUBIC METRES: .818 | | .201 | | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: | 8.40 | 1.69 | T.PHOS: | 0.34 | 0.07 | 7 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: THAMES RIVER | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|
| THEDFORD *MIN* 110002336 | | | | | | | | | | |
| VILLAGE | 661 | | | | | | | | | |
| THEDFORD LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | | ( .106) | ( .055 ) | | | | | | | |
| 1000 CUBIC METRES: | | .482 | .252 | | | | | | | |
| CONVENTIONAL LAGOON ANNUAL | | | | B O D: | 98.00 | 24.70 | B O D: 9.10 | 2.29 | 2 | |
| | | | | S S : | 244.00 | 61.49 | S S : 87.00 | 21.92 | 2 | 1 |
| | | | | T.PHOS: | 4.30 | 1.08 | T.PHOS: 0.74 | 0.19 | 2 | |
| | | | | WATERCOURSE: DECKER CREEK | | | | | | |
| | | | | REMEDIAL MEASURE: MEASURE BEING EVALUATED | | | | | | |
| THORNBURY *MIN* 110001890 | | | | | | | | | | |
| TOWN | 1543 | | | | | | | | | |
| THORNBURY LAGOON (SUMMER STORAGE) | | | | | | | | | | |
| CAPACITY (MIGD): | | ( .380) | ( .319 ) | | | | | | | |
| 1000 CUBIC METRES: | | 1.727 | 1.448 | | | | | | | |
| AERATED CELL PLUS LAGOON | | | | B O D: | 46.00 | 66.61 | B O D: 13.60 | 19.69 | 8 | 2 |
| | | | | S S : | 80.00 | 115.84 | S S : 17.10 | 24.76 | 8 | 1 |
| | | | | T.PHOS: | 2.90 | 4.20 | T.PHOS: 1.31 | 1.90 | 8 | |
| | | | | WATERCOURSE: BEAVER RIVER | | | | | | |
| TILBURY 120000916 | | | | | | | | | | |
| TOWN | 4200 | | | | | | | | | |
| TILBURY LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | | ( .556) | ( .074 ) | | | | | | | |
| 1000 CUBIC METRES: | | 2.537 | .338 | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL-CONTINUOUS | | | | B O D: | 0.00 | 0.00 | B O D: 6.40 | 2.16 | 2 | |
| | | | | S S : | 0.00 | 0.00 | S S : 19.10 | 6.46 | 2 | |
| | | | | T.PHOS: | 0.00 | 0.00 | T.PHOS: 1.50 | 0.51 | 2 | 1 |
| | | | | WATERCOURSE: TILBURY CREEK | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| TILBURY N (STONEY POINT) *MIN*<br>110002345 | | | | | | | | | | |
| TOWNSHIP | 935 | | | B O D: 35.00 | 41.90 | B O D: | 4.20 | 5.03 | 3 | |
| STONEY POINT P.V. LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .211) | | ( .263 ) | | S S : 40.00 | 47.88 | S S : | 12.20 | 14.60 | 3 | |
| 1000 CUBIC METRES: .959 | | 1.197 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 2.90 | 3.47 | T.PHOS: | 0.48 | 0.57 | 3 | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | WATERCOURSE: LITTLE CREEK | | | | | | |
| TILBURY WEST (COMBER) *MIN*<br>110001676 | | | | | | | | | | |
| TOWNSHIP | 604 | | | B O D: 137.00 | 45.07 | B O D: | 5.90 | 1.94 | 3 | |
| COMBER LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .089) | | ( .072 ) | | S S : 178.00 | 58.56 | S S : | 12.40 | 4.08 | 3 | |
| 1000 CUBIC METRES: .405 | | .329 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 8.30 | 2.73 | T.PHOS: | 0.32 | 0.11 | 3 | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | WATERCOURSE: GOVN'T DR NO.1 TO BIG CK | | | | | | |
| TILLSONBURG *MIN*<br>110000757 | | | | | | | | | | |
| TOWN | 9519 | | | B O D: 112.00 | 606.48 | B O D: | 3.50 | 18.95 | 12 | |
| TILLSONBURG WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 1.800) | | ( 1.191 ) | | S S : 168.00 | 909.72 | S S : | 7.50 | 40.61 | 12 | |
| 1000 CUBIC METRES: 8.183 | | 5.415 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 6.00 | 32.49 | T.PHOS: | 0.79 | 4.28 | 12 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | WATERCOURSE: BIG OTTER CREEK | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| TUCKERSMITH (VAN ASTRA) *MIN*<br>110003013 | | | | | | | | | | |
| TOWNSHIP | 650 | | | B O D: 42.00 | 38.35 | | B O D: 8.70 | 7.94 | 9 | 1 |
| VAN ASTRA WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( .309) | ( .201 ) | | S S : 47.00 | 42.91 | | S S : 13.00 | 11.87 | 9 | 2 |
| 1000 CUBIC METRES: | 1.405 | .913 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 2.70 | 2.47 | | T.PHOS: 0.76 | 0.69 | 9 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | | | WATERCOURSE: MUN DRAIN TO BAYFIELD R. | | | | |
| HALKERTON<br>120001489 | | | | | | | | | | |
| TOWN | 4591 | | | B O D: 358.00 | 2,396.09 | | B O D: 13.70 | 91.69 | 12 | 3 |
| HALKERTON WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( 1.660) | ( 1.472 ) | | S S : 292.00 | 1,954.36 | | S S : 6.80 | 45.51 | 12 | |
| 1000 CUBIC METRES: | 7.546 | 6.693 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 9.50 | 63.58 | | T.PHOS: 0.79 | 5.29 | 12 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | | | WATERCOURSE: SAUGEEN RIVER | | | | |
| WALLACEBURG *MIN*<br>110000784 | | | | | | | | | | |
| TOWN | 8500 | | | B O D: 104.00 | 922.58 | | B O D: 12.10 | 107.34 | 12 | 1 |
| WALLACEBURG WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( 1.500) | ( 1.952 ) | | S S : 167.00 | 1,481.46 | | S S : 8.80 | 78.06 | 11 | |
| 1000 CUBIC METRES: | 6.819 | 8.871 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 3.70 | 32.82 | | T.PHOS: 0.42 | 3.73 | 9 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | | | WATERCOURSE: SYDENHAM RIVER | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | INFLUENT<br>ANNUAL AVERAGE<br>LOADING KG/DAY | EFFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | EFFLUENT<br>ANNUAL AVERAGE<br>LOADING KG/DAY | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | COMPLIANCE<br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| WATFORD *MIN*<br>110001809 | | | | | | | | |
| VILLAGE | 1434 | | B O D: 116.00 | 57.07 | B O D: 17.20 | 8.46 | 1 | |
| WATFORD LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .231) | | ( .108 ) | S S : 83.00 | 40.84 | S S : 140.10 | 68.93 | 1 | 1 |
| 1000 CUBIC METRES: 1.050 | | .492 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 6.10 | 3.00 | T.PHOS: 0.88 | 0.43 | 1 | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | |
| | | | WATERCOURSE: BEAR CREEK | | | | | |
| | | | REMEDIAL MEASURE: MEASURE BEING EVALUATED | | | | | |
| WEST LORNE *MIN*<br>110001337 | | | | | | | | |
| VILLAGE | 1220 | | B O D: 95.00 | 59.47 | B O D: 20.10 | 12.58 | 4 | 1 |
| WEST LORNE LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .149) | | ( .138 ) | S S : 104.00 | 65.10 | S S : 68.20 | 42.69 | 4 | 4 |
| 1000 CUBIC METRES: .677 | | .626 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 6.30 | 3.94 | T.PHOS: 0.64 | 0.40 | 4 | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | |
| | | | WATERCOURSE: ZOLLER DRAIN | | | | | |
| | | | REMEDIAL MEASURE: MEASURE BEING EVALUATED | | | | | |
| WESTMINSTER (SOUTHLAND) *MIN*<br>120000818 | | | | | | | | |
| TOWNSHIP | 540 | | B O D: 110.00 | 13.09 | B O D: 11.40 | 1.36 | 11 | 1 |
| SOUTHLAND PARK WPCP(MIN.12.4.85) | | | | | | | | |
| CAPACITY (MIGD): ( .058) | | ( .026 ) | S S : 130.00 | 15.47 | S S : 14.30 | 1.70 | 11 | 2 |
| 1000 CUBIC METRES: .264 | | .119 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 6.70 | 0.80 | T.PHOS: 1.96 | 0.23 | 11 | 10 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: DINGMAN CREEK | | | | | |
| | | | REMEDIAL MEASURE: PROCESS/EQUIPMENT IMPROVEMENTS | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE # MONTHS OF EFFLUENT DATA | COMPLIANCE # MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| WESTMINSTER (WESTMINSTER #MIN# 110000800 | | | | | | | | | | |
| TOWNSHIP | 6059 | | | B O D: | 157.00 | 205.67 | B O D: | 8.90 | 11.66 | 12 | |
| WESTMINSTER WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( .250) | ( .288 ) | | S S : | 367.00 | 480.77 | S S : | 12.50 | 16.38 | 12 | 1 |
| 1000 CUBIC METRES: | 1.137 | 1.310 | | | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: | 6.20 | 8.12 | T.PHOS: | 0.54 | 0.71 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | WATERCOURSE: DINGMAN CREEK | | | | | | | |
| MIARTON #MIN# 110000819 | | | | | | | | | | |
| TOWN | 2061 | | | B O D: | 50.00 | 122.45 | B O D: | 9.40 | 23.02 | 12 | |
| MIARTON LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | ( .441) | ( .539 ) | | S S : | 59.00 | 144.49 | S S : | 14.90 | 36.49 | 12 | 1 |
| 1000 CUBIC METRES: | 2.005 | 2.449 | | | | | | | | | |
| CONVENTIONAL LAGOON CONTINUOUS | | | | T.PHOS: | 2.30 | 5.63 | T.PHOS: | 0.38 | 0.93 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | WATERCOURSE: COLPOY BAY | | | | | | | |
| WINDSOR (LITTLE) 120001096 | | | | | | | | | | |
| CITY | 64000 | | | B O D: | 98.00 | 4,411.47 | B O D: | 5.30 | 238.58 | 12 | |
| LITTLE RIVER WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( 8.000) | ( 9.903 ) | | S S : | 130.00 | 5,851.95 | S S : | 9.50 | 427.64 | 12 | |
| 1000 CUBIC METRES: | 36.368 | 45.015 | | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: | 4.80 | 216.07 | T.PHOS: | 0.82 | 36.91 | 12 | 3 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | WATERCOURSE: LITTLE RIVER | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | | EFFLUENT ANNUAL AVERAGE | | | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CONC. (MG/L) | LOADING KG/DAY | | CONC. (MG/L) | LOADING KG/DAY | | |
| WINDSOR (WESTERLY) | | | | | | | | | | |
| 120001103 | | | | | | | | | | |
| CITY | 123000 | | B O D: | 71.00 | 8,852.42 | B O D: | 22.10 | 2,755.47 | 12 | |
| WESTERLY WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 36.000) | | ( 27.430 ) | S S : | 88.00 | 10,972.02 | S S : | 20.00 | 2,493.64 | 12 | |
| 1000 CUBIC METRES: 163.656 | | 124.682 | | | | | | | | |
| PRIMARY | | | T.PHOS: | 4.40 | 548.60 | T.PHOS: | 0.86 | 107.23 | 12 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: DETROIT RIVER | | | | | | | |
| WINGHAM *WIN* | | | | | | | | | | |
| 110000628 | | | | | | | | | | |
| TOWN | 2931 | | B O D: | 151.00 | 379.61 | B O D: | 12.70 | 31.93 | 12 | |
| WINGHAM LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .553) | | ( .553 ) | S S : | 155.00 | 389.67 | S S : | 21.80 | 54.81 | 12 | 1 |
| 1000 CUBIC METRES: 1.605 | | 2.514 | | | | | | | | |
| CONVENTIONAL LAGOON CONTINUOUS | | | T.PHOS: | 5.40 | 13.58 | T.PHOS: | 1.89 | 4.75 | 12 | |
| | | | WATERCOURSE: MAITLAND RIVER | | | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | |
| WOODSTOCK | | | | | | | | | | |
| 120000685 | | | | | | | | | | |
| CITY | 26500 | | B O D: | 83.00 | 1,984.70 | B O D: | 11.70 | 279.77 | 12 | |
| WOODSTOCK WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 8.000) | | ( 5.261 ) | S S : | 108.00 | 2,582.50 | S S : | 16.50 | 394.56 | 12 | 1 |
| 1000 CUBIC METRES: 36.368 | | 23.912 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: | 4.00 | 95.65 | T.PHOS: | 1.02 | 24.39 | 11 | 5 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: THAMES RIVER | | | | | | | |

SOUTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ZURICH *MIN* 110001444 | 800 | | | | | | | | | | |
| VILLAGE | | | | | | | | | | | |
| ZURICH LAGOON | | | | | | | | | | | |
| CAPACITY (MIGD): | | ( .097) | ( .106 ) | | | | | | | | |
| 1000 CUBIC METRES: | | .441 | .484 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | BOD: | 114.00 | 55.10 | BOD: | 14.00 | 6.78 | 2 | |
| | | | | SS : | 167.00 | 80.83 | SS : | 40.20 | 19.46 | 2 | 1 |
| | | | | T.PHOS: | 6.40 | 3.10 | T.PHOS: | 1.50 | 0.73 | 2 | |
| | | | | | | | WATERCOURSE: MUN DRAIN TO L. HURON | | | | |

SOUTHWESTERN REGION

# AREA WASTEWATER TREATMENT SYSTEMS

| TOTAL AREA WASTEWATER TREATMENT SYSTEMS | TOTAL CAPACITY | |
|---|---|---|
| | $1000m^3$ | MIGD |
| TWO . . . . . | 206.8 | 45.5 |

**SYSTEM:** **BELLE RIVER - MAIDSTONE POLLUTION CONTROL SYSTEM**

Number of Plants: One
Operated by: The Ministry of the Environment

Number of Municipalities Served: Two

| PLANT LOCATION | TREATMENT | CAPACITY | MUNICIPALITIES SERVED | WATERCOURSE |
|---|---|---|---|---|
| MAIDSTONE TWP.<br>- Belle River - Maidstone WPCP<br>110002078 | Extended Aeration<br>Phosphorus Removal | 1.5 MIGD<br>(6.8 1000$m^3$/d) | Belle River Town<br>Maidstone Twp. | Lake St. Clair |

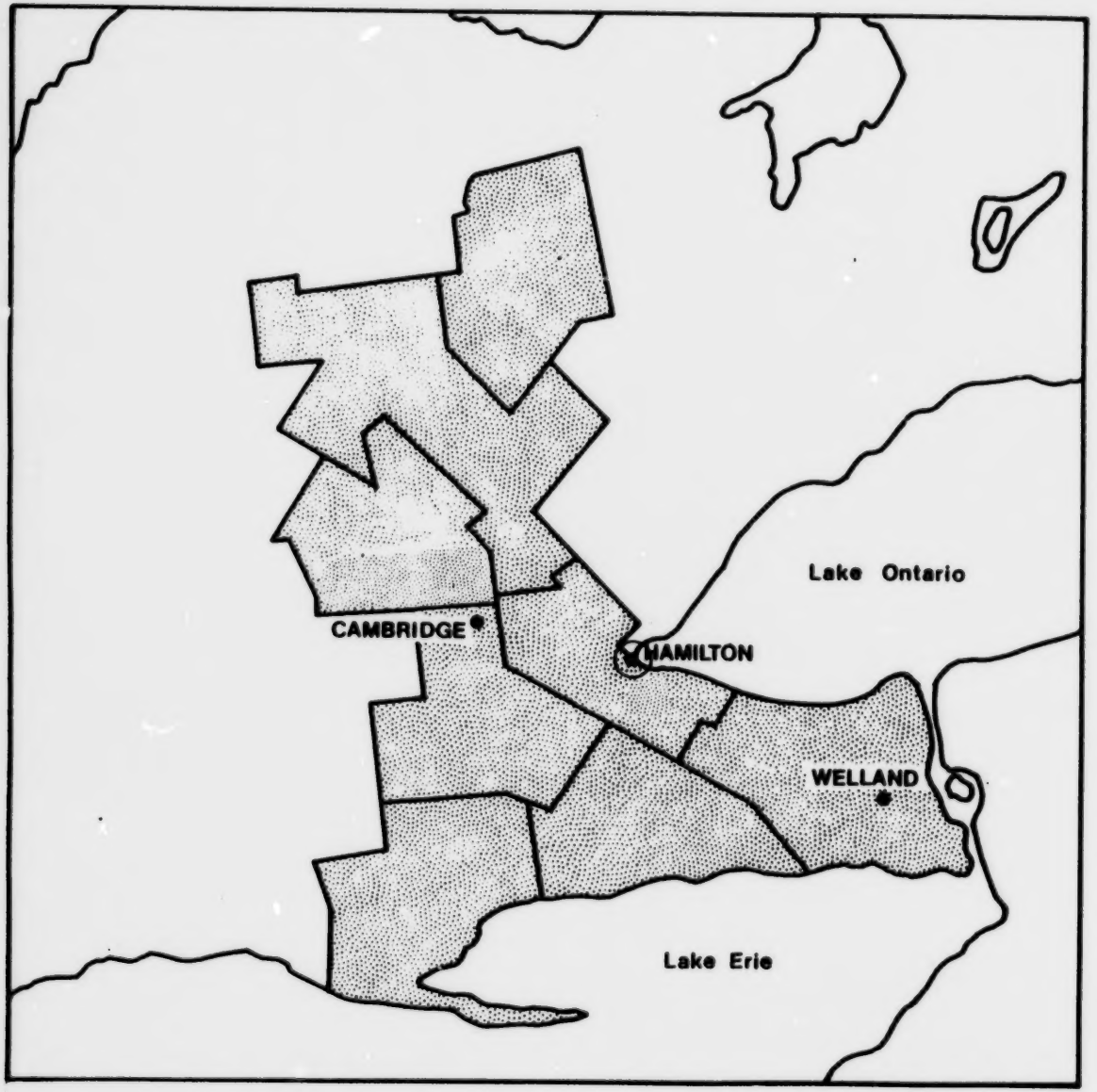
**SYSTEM:** **WINDSOR POLLUTION CONTROL SYSTEM**

Number of Plants: Two
Operated by: City of Windsor

Number of Municipalities Services: Five

| PLANT LOCATION | TREATMENT | CAPACITY | MUNICIPALITIES SERVED | WATERCOURSE |
|---|---|---|---|---|
| WINDSOR CITY<br>- Little River WPCP<br>120000096 | Conv. Act. Sludge<br>Phosphorus Removal | 8.0 MIGD<br>(36.4 1000$m^3$/d) | Windsor City<br>*Tecumseh Town<br>*St. Clair Beach Village<br>*Sandwich South Twp. | Little River |
| WINDSOR CITY<br>- Westerly WPCP<br>120001103 | Primary<br>Phosphorus Removal | 36.0 MIGD<br>(163.6 1000$m^3$/d) | Windsor City<br>Sandwich West Twp. | Detroit River |

*Ministry operated sanitary sewage collection systems are serving these municipalities.


Lake Ontario
CAMBRIDGE
HAMILTON
WELLAND
Lake Erie

**REGIONAL OFFICES**

Hamilton
119 King St. W.
P.O. Box 2112
L8N 3Z9
416 521-7640

**DISTRICT OFFICES**

Cambridge
400 Clyde Road
P.O. Box 219
N1R 5T8
519 623-2080

Haldimand-Norfolk/Brant
119 King St. W.
P.O. Box 2112
L8N 3Z9
416 521-7657

Hamilton-Wentworth
119 King St. W.
P.O. Box 2112
L8N 3Z9
416 521-7732

Welland
637 641 Niagara St. N.
L3C 1L9
416 735-0431

WEST CENTRAL REGION SUMMARY

| TREATMENT TYPE | NUMBER | | | ** CAPACITY MIGD ** ($1000M^3$) | | |
|---|---|---|---|---|---|---|
| | MINISTRY | MUNICIPAL | TOTAL | MINISTRY | MUNICIPAL | TOTAL |
| COMMUNAL SEPTIC TANK | 0 | 1 | 1 | .000 | .050 | .050 |
| | | | | | | ( .227) |
| PRIMARY | 1 | 2 | 3 | .900 | 16.400 | 17.300 |
| | | | | | | ( 78.646) |
| CONVENTIONAL ACTIVATED SLUDGE | 13 | 11 | 24 | 78.640 | 147.540 | 226.180 |
| | | | | | | (1,028.214) |
| EXTENDED AERATION | 6 | 2 | 8 | 2.577 | 1.529 | 4.106 |
| | | | | | | ( 18.666) |
| HIGH RATE | 1 | 0 | 1 | 2.050 | .000 | 2.050 |
| | | | | | | ( 9.319) |
| OXIDATION DITCH | 4 | 0 | 4 | .992 | .000 | .992 |
| | | | | | | ( 4.510) |
| CONVENTIONAL LAGOON ANNUAL | 1 | 0 | 1 | .020 | .000 | .020 |
| | | | | | | ( .091) |
| CONVENTIONAL LAGOON CONTINUOUS | 0 | 1 | 1 | .000 | .504 | .504 |
| | | | | | | ( 2.291) |
| CONVENTIONAL LAGOON SEASONAL | 6 | 4 | 10 | .935 | .541 | 1.476 |
| | | | | | | ( 6.710) |
| AERATED CELL PLUS LAGOON | 2 | 2 | 4 | 1.070 | 1.095 | 2.165 |
| | | | | | | ( 9.842) |
| #### TOTALS #### | 34 | 23 | 57 | 87.184 | 167.659 | 254.843 |
| | | | | ( 396.338) | ( 762.178) | (1,158.516) |

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$ :THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MIGD = 4.546 $1000M^3$

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKS NUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| ARTHUR *MIN* 110000882 | | | | | | | | | |
| VILLAGE | 1674 | | | | | | | | |
| ARTHUR LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .216) | ( .238 ) | B O D: | 131.00 | 141.48 | 16.40 | 17.71 | 3 | |
| 1000 CUBIC METRES: | .982 | 1.080 | S S : | 82.00 | 88.56 | 43.80 | 47.30 | 3 | 2 |
| CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH | | | T.PHOS: | 4.00 | 4.32 | 0.85 | 0.92 | 3 | |
| | | | WATERCOURSE: CONESTOGA RIVER | | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | |
| BRANTFORD *MIN* 110000043 | | | | | | | | | |
| CITY | 73000 | | | | | | | | |
| BRANTFORD WPCP | | | | | | | | | |
| CAPACITY (MIGD): | ( 18.000) | ( 12.872 ) | B O D: | 168.00 | 9,829.34 | 9.50 | 555.83 | 12 | |
| 1000 CUBIC METRES: | 81.828 | 58.508 | S S : | 219.00 | 12,813.25 | 8.10 | 473.91 | 12 | |
| CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS | | | T.PHOS: | 5.30 | 310.09 | 0.75 | 43.88 | 12 | 1 |
| | | | WATERCOURSE: GRAND RIVER | | | | | | |
| BRANTFORD (AIRPORT) 120004798 | | | NO 1985 DISCHARGE | | | | | | |
| TOWNSHIP | 65 | | | | | | | | |
| AIRPORT WPCP (DISCHARGE TO A TILE FIELD) | | | | | | | | | |
| CAPACITY (MIGD): | ( .050) | ( ) | B O D: | 0.00 | | 0.00 | | | |
| 1000 CUBIC METRES: | .227 | | S S : | 0.00 | | 0.00 | | | |
| COMMUNAL SEPTIC TANK | | | T.PHOS: | 0.00 | | 0.00 | | | |
| | | | WATERCOURSE: NO DISC.TO SURFACE WATER | | | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER / EXISTING CAPACITY AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD) 1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | EFFLUENT ANNUAL AVERAGE | | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| **BRANTFORD (CAINSVILLE)** 120004716 | | | | | | | | |
| TOWNSHIP | 65 | | B O D: 0.00 | 0.00 | B O D: 0.00 | 0.00 | | |
| CAINSVILLE LAGOON (SERVES INDUSTRY) | | | | | | | | |
| CAPACITY (MIGD): ( .037) | | ( 1.058 ) | S S : 0.00 | 0.00 | S S : 0.00 | 0.00 | | |
| 1000 CUBIC METRES: .168 | | 4.811 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 0.00 | 0.00 | T.PHOS: 0.00 | 0.00 | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: FAIRCHILD CREEK | | | | | |
| **CAMBRIDGE (GALT)** *MIN* 110000276 | | | | | | | | |
| CITY | 44966 | | B O D: 161.00 | 5,151.52 | B O D: 11.30 | 361.57 | 12 | |
| GALT WPCP | | | | | | | | |
| CAPACITY (MIGD): ( 8.500) | | ( 7.039 ) | S S : 168.00 | 5,375.50 | S S : 11.60 | 371.17 | 12 | |
| 1000 CUBIC METRES: 38.641 | | 31.997 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 6.90 | 220.78 | T.PHOS: 0.79 | 25.28 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: GRAND RIVER | | | | | |
| **CAMBRIDGE (HESPELER)** *MIN* 110001033 | | | | | | | | |
| CITY | 10110 | | B O D: 95.00 | 523.93 | B O D: 28.30 | 156.07 | 12 | 7 |
| HESPELER WPCP | | | | | | | | |
| CAPACITY (MIGD): ( 2.050) | | ( 1.213 ) | S S : 114.00 | 628.71 | S S : 30.90 | 170.41 | 12 | 7 |
| 1000 CUBIC METRES: 9.319 | | 5.515 | | | | | | |
| HIGH RATE | | | T.PHOS: 5.50 | 30.33 | T.PHOS: 1.26 | 6.95 | 12 | 7 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: SPEED RIVER | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT<br>ANNUAL AVERAGE | | EFFLUENT<br>ANNUAL AVERAGE | | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | COMPLIANCE<br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| CAMBRIDGE (PRESTON) #MIN# | | | | | | | | |
| 110000622 | | | | | | | | |
| CITY | 19673 | | B O D: 730.00 | 6,153.17 | B O D: 17.50 | 147.51 | 12 | 3 |
| PRESTON WPCP | | | | | | | | |
| CAPACITY (MIGD): ( 3.710) | | ( 1.854 ) | S S : 842.00 | 7,097.22 | S S : 17.10 | 144.14 | 12 | 2 |
| 1000 CUBIC METRES: 16.866 | | 8.429 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 6.60 | 55.63 | T.PHOS: 0.76 | 6.41 | 12 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: GRAND RIVER | | | | | |
| DELHI #MIN# | | | | | | | | |
| 120001425 | | | | | | | | |
| TOWNSHIP | 3839 | | B O D: 153.00 | 301.72 | B O D: 8.60 | 16.96 | 11 | |
| DELHI WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .700) | | ( .434 ) | S S : 154.00 | 303.69 | S S : 8.30 | 16.37 | 12 | |
| 1000 CUBIC METRES: 3.182 | | 1.972 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 6.70 | 13.21 | T.PHOS: 0.21 | 0.41 | 11 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: BIG CREEK | | | | | |
| DUNDAS ## | | | | | | | | |
| 120001372 | | | | | | | | |
| TOWN | 19501 | | B O D: 115.00 | 1,536.75 | B O D: 6.50 | 86.86 | 12 | |
| DUNDAS KING ST.WPCP | | | | | | | | |
| CAPACITY (MIGD): ( 4.000) | | ( 2.940 ) | S S : 145.00 | 1,937.64 | S S : 8.70 | 116.26 | 12 | 1 |
| 1000 CUBIC METRES: 18.184 | | 13.363 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 5.80 | 77.51 | T.PHOS: 0.76 | 10.16 | 12 | 3 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | |
| | | | WATERCOURSE: COOTES PARADISE | | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | COMPLIANCE # MONTHS OF EFFLUENT DATA | # MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| DUNNVILLE #MIN# | | | | | | | | | | |
| 120001443 | | | | | | | | | | |
| TOWN | 5471 | | B O D: | 195.00 | 960.96 | B O D: | 11.80 | 58.15 | 12 | 1 |
| DUNNVILLE MPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 1.700) | | ( 1.084 ) | S S : | 202.00 | 995.46 | S S : | 8.40 | 41.40 | 12 | |
| 1000 CUBIC METRES: 7.728 | | 4.928 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: | 3.70 | 18.23 | T.PHOS: | 0.61 | 3.01 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: GRAND RIVER | | | | | | | |
| DUNNVILLE (OSHEGO PARK) #MIN# | | | | | | | | | | |
| 110003068 | | | | | | | | | | |
| TOWN | 250 | | B O D: | 212.00 | 33.92 | B O D: | 10.40 | 1.66 | 2 | |
| OSHEGO PARK LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .020) | | ( .035 ) | S S : | 259.00 | 41.44 | S S : | 26.70 | 4.27 | 2 | |
| 1000 CUBIC METRES: .091 | | .160 | | | | | | | | |
| CONVENTIONAL LAGOON ANNUAL | | | T.PHOS: | 11.00 | 1.76 | T.PHOS: | 2.80 | 0.45 | 2 | |
| | | | WATERCOURSE: OSHEGO CREEK | | | | | | | |
| ELORA | | | | | | | | | | |
| 110000178 | | | | | | | | | | |
| VILLAGE | 2800 | | B O D: | 125.00 | 171.13 | B O D: | 2.50 | 3.42 | 9 | |
| ELORA MPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( .674) | | ( .301 ) | S S : | 133.00 | 182.08 | S S : | 4.80 | 6.57 | 12 | |
| 1000 CUBIC METRES: 3.064 | | 1.369 | | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: | 6.30 | 8.62 | T.PHOS: | 0.40 | 0.55 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: GRAND RIVER | | | | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE # MONTHS OF EFFLUENT DATA | COMPLIANCE # MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| FERGUS *MINN* | | | | | | | | |
| 110000249 | | | | | | | | |
| TOWN | 6050 | | B O D: 120.00 | 465.96 | B O D: 10.10 | 39.22 | 12 | |
| FERGUS WPCP | | | | | | | | |
| CAPACITY (MIGD): ( 1.100) | | ( .854 ) | S S : 132.00 | 512.56 | S S : 24.50 | 95.13 | 12 | 5 |
| 1000 CUBIC METRES: 5.001 | | 3.883 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 4.80 | 18.64 | T.PHOS: 0.55 | 2.14 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | | WATERCOURSE: GRAND RIVER | | | | |
| FLAMBOROUGH (WATERDOWN)** | | | | | | | | |
| 120005001 | | | | | | | | |
| TOWN | 3900 | | B O D: 100.00 | 222.10 | B O D: 4.00 | 8.88 | 12 | |
| WATERDOWN WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .600) | | ( .489 ) | S S : 134.00 | 297.61 | S S : 0.90 | 2.00 | 12 | |
| 1000 CUBIC METRES: 2.728 | | 2.221 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 5.20 | 11.55 | T.PHOS: 0.42 | 0.93 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | |
| | | | | WATERCOURSE: GRINDSTONE CREEK | | | | |
| FORT ERIE (ANGER AVE.) | | | | | | | | |
| 120001292 | | | | | | | | |
| TOWN | 13765 | | B O D: 111.00 | 1,438.01 | B O D: 34.80 | 450.83 | 12 | 3 |
| ANGER AVE.WPCP | | | | | | | | |
| CAPACITY (MIGD): ( 3.600) | | ( 2.850 ) | S S : 87.00 | 1,127.09 | S S : 28.10 | 364.04 | 12 | 8 |
| 1000 CUBIC METRES: 16.366 | | 12.955 | | | | | | |
| PRIMARY | | | T.PHOS: 3.50 | 45.34 | T.PHOS: 0.75 | 9.72 | 12 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | | WATERCOURSE: NIAGARA RIVER | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| FORT ERIE(CRYSTAL BEACH)<br>120001283<br>TOWN<br>CRYSTAL BEACH MPCP<br>CAPACITY (MIGD): ( .855)<br>1000 CUBIC METRES: 3.887<br>EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | 4095 | ( 1.045 )<br>4.748 | B O D: | 59.00 | 280.13 | B O D: | 21.70 | 103.03 | 12 | 4 |
| | | | S S : | 78.00 | 370.34 | S S : | 30.30 | 143.86 | 11 | 7 |
| | | | T.PHOS: | 2.20 | 10.45 | T.PHOS: | 1.06 | 5.03 | 12 | 6 |
| | | | WATERCOURSE: LAKE ERIE | | | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | |
| FORT ERIE(STEVENSVILLE)<br>120003110<br>TOWN<br>STEVENSVILLE-DOUGLASTOWN LAGOON<br>CAPACITY (MIGD): ( .504)<br>1000 CUBIC METRES: 2.291<br>CONVENTIONAL LAGOON CONTINUOUS | 1500 | ( .101 )<br>.459 | B O D: | 85.00 | 39.02 | B O D: | 8.80 | 4.04 | 12 | |
| | | | S S : | 103.00 | 47.28 | S S : | 14.40 | 6.61 | 12 | |
| | | | T.PHOS: | 5.00 | 2.30 | T.PHOS: | 0.72 | 0.33 | 11 | |
| | | | WATERCOURSE: NIAGARA RIVER | | | | | | | |
| GRAND VALLEY<br>MINN<br>110000301<br>VILLAGE<br>GRAND VALLEY MPCP<br>CAPACITY (MIGD): ( .132)<br>1000 CUBIC METRES: .600<br>OXIDATION DITCH<br>PHOSPHORUS REMOVAL-CONTINUOUS | 1020 | ( .074 )<br>.335 | B O D: | 144.00 | 48.24 | B O D: | 3.10 | 1.04 | 11 | |
| | | | S S : | 165.00 | 55.28 | S S : | 11.20 | 3.75 | 12 | 1 |
| | | | T.PHOS: | 8.30 | 2.78 | T.PHOS: | 0.44 | 0.15 | 12 | |
| | | | WATERCOURSE: GRAND RIVER | | | | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER / EXISTING CAPACITY AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD) 1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | | EFFLUENT ANNUAL AVERAGE | | | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CONC. (MG/L) | LOADING KG/DAY | | CONC. (MG/L) | LOADING KG/DAY | | |
| GRIMSBY (BAKER ROAD) | | | | | | | | | | |
| 120001684 | | | | | | | | | | |
| TOWN | 19650 | | B O D: | 115.00 | 1,377.36 | B O D: | 11.70 | 140.13 | 12 | 1 |
| BAKER ROAD WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 4.000) | | ( 2.635 ) | S S : | 140.00 | 1,676.78 | S S : | 7.10 | 85.04 | 12 | |
| 1000 CUBIC METRES: 18.184 | | 11.977 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: | 5.40 | 64.68 | T.PHOS: | 0.59 | 7.07 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: LAKE ONTARIO | | | | | | | |
| GRIMSBY (BIGGAR) | | | | | | | | | | |
| 120001256 | | | | | | | | | | |
| TOWN | 1075 | | B O D: | 471.00 | 642.92 | B O D: | 22.00 | 30.03 | 12 | 2 |
| BIGGAR LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .250) | | ( .300 ) | S S : | 187.00 | 255.26 | S S : | 26.40 | 36.04 | 12 | 2 |
| 1000 CUBIC METRES: 1.137 | | 1.365 | | | | | | | | |
| AERATED CELL PLUS LAGOON | | | T.PHOS: | 5.30 | 7.23 | T.PHOS: | 2.32 | 3.17 | 11 | |
| | | | WATERCOURSE: LAKE ONTARIO | | | | | | | |
| GUELPH ** | | | | | | | | | | |
| 120003094 | | | | | | | | | | |
| CITY | 76600 | | B O D: | 180.00 | 8,590.32 | B O D: | 7.50 | 357.93 | 12 | |
| GUELPH WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 12.000) | | ( 10.499 ) | S S : | 245.00 | 11,692.38 | S S : | 7.70 | 367.47 | 12 | |
| 1000 CUBIC METRES: 54.552 | | 47.724 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: | 6.20 | 295.89 | T.PHOS: | 0.82 | 39.13 | 12 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | | |
| | | | WATERCOURSE: SPEED RIVER | | | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | |

## 1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| **HALDIMAND (CALEDONIA) *MINN***<br>120001452 | | | | | | | | | | |
| TOWN | 4237 | | | B O D: | 148.00 | 360.53 | B O D: | 13.10 | 31.91 | 12 | |
| CALEDONIA WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .500) | ( | .536 ) | S S : | 259.80 | 632.87 | S S : | 20.20 | 49.21 | 12 | 3 |
| 1000 CUBIC METRES: | 2.273 | | 2.436 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: | 6.10 | 14.86 | T.PHOS: | 1.00 | 2.44 | 11 | 3 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | WATERCOURSE: GRAND RIVER | | | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | |
| **HALDIMAND (CAYUGA) *MINN***<br>110000089 | | | | | | | | | | |
| TOWN | 1049 | | | B O D: | 105.00 | 69.72 | B O D: | 2.40 | 1.59 | 12 | |
| CAYUGA WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .200) | ( | .146 ) | S S : | 124.00 | 82.34 | S S : | 5.90 | 3.92 | 12 | |
| 1000 CUBIC METRES: | .909 | | .664 | | | | | | | | |
| OXIDATION DITCH | | | | T.PHOS: | 6.10 | 4.05 | T.PHOS: | 0.38 | 0.25 | 10 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | WATERCOURSE: GRAND RIVER | | | | | | | |
| **HALDIMAND (HAGERSVILLE) *MINN***<br>110001024 | | | | | | | | | | |
| TOWN | 2362 | | | B O D: | 145.00 | 217.94 | B O D: | 6.60 | 9.92 | 12 | |
| HAGERSVILLE WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .220) | ( | .331 ) | S S : | 153.00 | 229.96 | S S : | 11.00 | 16.53 | 12 | |
| 1000 CUBIC METRES: | 1.000 | | 1.503 | | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: | 6.90 | 10.37 | T.PHOS: | 0.64 | 0.96 | 12 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | WATERCOURSE: SANDUSK CREEK | | | | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| HAMILTON (WOODWARD)<br>120001504<br>CITY<br>WOODWARD AVE.WPCP (P.REM WITHOUT CHEM) | 300000 | | | | | | | |
| CAPACITY (MIGD): ( 90.000) | | ( 67.817 ) | B O D: 156.00 | 48,088.09 | B O D: 23.30 | 7,182.39 | 12 | 5 |
| 1000 CUBIC METRES: 409.140 | | 308.257 | S S : 302.00 | 93,093.61 | S S : 19.60 | 6,041.84 | 12 | 3 |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 6.60 | 2,034.50 | T.PHOS: 1.31 | 403.82 | 12 | 9 |
| | | | WATERCOURSE: REDHILL CREEK | | | | | |
| | | | REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | |
| HARRISTON *MIN*<br>110000329 | | | | | | | | |
| TOWN<br>HARRISTON LAGOON | 1963 | | B O D: 215.00 | 340.99 | B O D: 29.60 | 46.95 | 2 | 1 |
| CAPACITY (MIGD): ( .219) | | ( .349 ) | S S : 407.00 | 645.50 | S S : 50.90 | 80.73 | 2 | 1 |
| 1000 CUBIC METRES: .996 | | 1.586 | T.PHOS: 22.00 | 34.89 | T.PHOS: 6.25 | 9.91 | 2 | |
| CONVENTIONAL LAGOON SEASONAL | | | WATERCOURSE: MAITLAND RIVER | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | |
| KITCHENER *MIN*<br>110000374 | | | | | | | | |
| CITY<br>KITCHENER WPCP | 138271 | | B O D: 226.00 | 14,568.41 | B O D: 7.40 | 477.02 | 12 | |
| CAPACITY (MIGD): ( 27.000) | | ( 14.182 ) | S S : 216.00 | 13,923.79 | S S : 5.10 | 328.76 | 12 | |
| 1000 CUBIC METRES: 122.742 | | 64.462 | T.PHOS: 6.90 | 444.79 | T.PHOS: 0.75 | 48.35 | 12 | |
| CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | | | WATERCOURSE: GRAND RIVER | | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|
| MOUNT FOREST<br>120001381 | | | | | | | | | | |
| TOWN | 3200 | | | B O D: | 123.00 | 200.86 | B O D: | 5.70 | 9.31 | 9 | | |
| MOUNT FOREST MPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( .540) | ( .359 ) | | S S : | 111.00 | 181.26 | S S : | 16.20 | 26.45 | 2 | | |
| 1000 CUBIC METRES: | 2.455 | 1.633 | | | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: | 7.20 | 11.76 | T.PHOS: | 1.21 | 1.98 | 5 | 1 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | | |
| | | | | WATERCOURSE: SAUGEEN RIVER | | | | | | | | |
| NANTICOKE (JARVIS) *MIN*<br>120001434 | | | | | | | | | | |
| CITY | 1190 | | | B O D: | 105.00 | 92.19 | B O D: | 27.00 | 23.71 | 1 | 1 | |
| JARVIS LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | ( .120) | ( .193 ) | | S S : | 128.00 | 112.38 | S S : | 36.80 | 32.31 | 1 | 1 | |
| 1000 CUBIC METRES: | .546 | .878 | | | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: | 6.60 | 5.79 | T.PHOS: | 0.98 | 0.86 | 1 | | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | | | | |
| | | | | WATERCOURSE: SANDUSK CREEK | | | | | | | | |
| NANTICOKE (PORT DOVER) *MIN*<br>110000604 | | | | | | | | | | |
| CITY | 3475 | | | B O D: | 162.00 | 518.08 | B O D: | 31.60 | 101.06 | 11 | 1 | |
| PORT DOVER MPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( .900) | ( .704 ) | | S S : | 249.00 | 796.30 | S S : | 20.30 | 64.92 | 12 | 1 | |
| 1000 CUBIC METRES: | 4.091 | 3.198 | | | | | | | | | | |
| PRIMARY | | | | T.PHOS: | 5.50 | 17.59 | T.PHOS: | 0.45 | 1.44 | 12 | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | | |
| | | | | WATERCOURSE: LAKE ERIE | | | | | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | COMPLIANCE # MONTHS OF EFFLUENT DATA | # MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| NANTICOKE (STELCO IND.P) #MIN# | | | | | | | | | | |
| 110003371 | | | | | | | | | | |
| CITY | 0 | | B O D: | 13.00 | 3.07 | B O D: | 2.10 | 0.50 | 1 | |
| STELCO IND. PARK LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .010) | | ( .052 ) | S S : | 34.00 | 8.02 | S S : | 36.10 | 8.52 | 1 | |
| 1000 CUBIC METRES: .045 | | .236 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: | 3.10 | 0.73 | T.PHOS: | 0.36 | 0.08 | 1 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: CENTER CR | | | | | | | |
| NANTICOKE (TOWNSEND) #MIN# | | | | | | | | | | |
| 110003424 | | | | | | NO 1985 DISCHARGE | | | | |
| CITY | 200 | | B O D: | 0.00 | 0.00 | B O D: | 0.00 | 0.00 | | |
| TOWNSEND LAGOON (NO DISCH.'85) | | | | | | | | | | |
| CAPACITY (MIGD): ( .210) | | ( .000 ) | S S : | 0.00 | 0.00 | S S : | 0.00 | 0.00 | | |
| 1000 CUBIC METRES: .955 | | .000 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: | 0.00 | 0.00 | T.PHOS: | 0.00 | 0.00 | | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | | |
| | | | WATERCOURSE: NANTICOKE CREEK | | | | | | | |
| NANTICOKE (WATERFORD) #MIN# | | | | | | | | | | |
| 110001195 | | | | | | | | | | |
| CITY | 2364 | | B O D: | 90.00 | 84.42 | B O D: | 17.40 | 16.32 | 11 | 1 |
| WATERFORD LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .470) | | ( .206 ) | S S : | 79.00 | 74.10 | S S : | 23.70 | 22.23 | 11 | 2 |
| 1000 CUBIC METRES: 2.137 | | .938 | | | | | | | | |
| AERATED CELL PLUS LAGOON | | | T.PHOS: | 4.80 | 4.50 | T.PHOS: | 0.90 | 0.84 | 9 | 3 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: NANTICOKE CREEK | | | | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| **NIAGARA FALLS (STAMFORD)**<br>120001363 | | | | | | | | | | |
| CITY | 67835 | | | | | | | | | |
| STAMFORD WPCP | | | | B O D: | 89.00 | 5,078.25 | B O D: | 31.30 | 1,785.95 | 12 | 1 |
| CAPACITY (MIGD): | ( 12.800) | ( | 12.553 ) | | | | | | | | |
| 1000 CUBIC METRES: | 58.189 | | 57.059 | S S : | 99.00 | 5,648.84 | S S : | 23.70 | 1,352.30 | 12 | 2 |
| PRIMARY | | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | T.PHOS: | 3.10 | 176.88 | T.PHOS: | 0.45 | 25.68 | 12 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | WATERCOURSE: CHIPPAWA POWER CANAL | | | | | | | |
| **NIAGARA-ON-THE-LAKE(GAR)**<br>120003236 | | | | | | | | | | |
| TOWN | 150 | | | | | | | | | |
| GARDEN CITY RACEWAY LAGOON | | | | B O D: | 57.00 | 1.43 | B O D: | 0.00 | 0.00 | | |
| CAPACITY (MIGD): | ( .140) | ( | .006 ) | | | | | | | | |
| 1000 CUBIC METRES: | .636 | | .025 | S S : | 222.00 | 5.55 | S S : | 0.00 | 0.00 | | |
| CONVENTIONAL LAGOON SEASONAL | | | | | | | | | | | |
| | | | | T.PHOS: | 4.30 | 0.11 | T.PHOS: | 0.00 | 0.00 | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | WATERCOURSE: DITCH TO SIX MILE CREEK | | | | | | | |
| **NIAGARA-ON-THE-LAKE(NIA)**<br>120001238 | | | | | | | | | | |
| TOWN | 5210 | | | | | | | | | |
| NIAGARA-ON-THE-LAKE LAGOON | | | | B O D: | 200.00 | 704.20 | B O D: | 10.50 | 36.97 | 12 | |
| CAPACITY (MIGD): | ( .845) | ( | .775 ) | | | | | | | | |
| 1000 CUBIC METRES: | 3.841 | | 3.521 | S S : | 127.00 | 447.17 | S S : | 11.90 | 41.90 | 12 | |
| AERATED CELL PLUS LAGOON | | | | | | | | | | | |
| | | | | T.PHOS: | 4.60 | 16.20 | T.PHOS: | 3.31 | 11.65 | 12 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | WATERCOURSE: LAKE ONTARIO | | | | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER / EXISTING CAPACITY AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD) 1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| NORFOLK (PORT ROWAN) #MIN# 110001113 | | | | | | | | |
| TOWNSHIP | 720 | | B O D: 0.00 | 0.00 | B O D: 3.50 | 0.10 | 1 | |
| PORT ROWAN LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .160) | | ( .006 ) | S S : 0.00 | 0.00 | S S : 9.20 | 0.27 | 1 | |
| 1000 CUBIC METRES: .727 | | .029 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 0.00 | 0.00 | T.PHOS: 0.59 | 0.02 | 1 | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | |
| | | | | WATERCOURSE: DEDRICH CREEK | | | | |
| NORTH DUMFRIES (AYR) #MIN# 110001943 | | | | | | | | |
| TOWNSHIP | 1281 | | B O D: 153.00 | 60.44 | B O D: 4.10 | 1.62 | 12 | |
| AYR PV WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .260) | | ( .087 ) | S S : 158.00 | 62.41 | S S : 7.20 | 2.84 | 12 | |
| 1000 CUBIC METRES: 1.182 | | .395 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 8.70 | 3.44 | T.PHOS: 0.56 | 0.22 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | | WATERCOURSE: NITH RIVER | | | | |
| ORANGEVILLE ** #MIN# 110000542 | | | | | | | | |
| TOWN | 15300 | | B O D: 135.00 | 1,095.53 | B O D: 2.40 | 19.48 | 12 | |
| ORANGEVILLE WPCP | | | | | | | | |
| CAPACITY (MIGD): ( 3.200) | | ( 1.785 ) | S S : 140.00 | 1,136.10 | S S : 3.60 | 29.21 | 12 | |
| 1000 CUBIC METRES: 14.547 | | 8.115 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 6.20 | 50.31 | T.PHOS: 0.25 | 2.03 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | |
| | | | | WATERCOURSE: CREDIT RIVER | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| PALMERSTON *MIN* 110001088 | | | | | | | | | | |
| TOWN | 2050 | | B O D: | 173.00 | 260.02 | B O D: | 76.30 | 114.68 | 10 | 8 |
| PALMERSTON WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( .150) | | ( .331 ) | S S : | 213.00 | 320.14 | S S : | 71.90 | 108.07 | 10 | 9 |
| 1000 CUBIC METRES: .682 | | 1.503 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: | 7.00 | 10.52 | T.PHOS: | 3.36 | 5.05 | 10 | |
| | | | WATERCOURSE: WALLACE DRAIN | | | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | |
| PARIS *MIN* 110001097 | | | | | | | | | | |
| TOWN | 4359 | | B O D: | 343.00 | 867.45 | B O D: | 6.10 | 15.43 | 12 | 1 |
| PARIS WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 1.550) | | ( .556 ) | S S : | 222.00 | 561.44 | S S : | 6.70 | 16.94 | 12 | |
| 1000 CUBIC METRES: 7.046 | | 2.529 | | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: | 8.40 | 21.24 | T.PHOS: | 0.55 | 1.39 | 12 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: GRAND RIVER | | | | | | | |
| PORT COLBORNE (SEAWAY) 120001906 | | | | | | | | | | |
| CITY | 15825 | | B O D: | 76.00 | 1,C04.26 | B O D: | 13.00 | 171.78 | 12 | |
| SEAWAY WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 3.300) | | ( 2.907 ) | S S : | 259.00 | 3,422.43 | S S : | 15.70 | 207.46 | 12 | 1 |
| 1000 CUBIC METRES: 15.002 | | 13.214 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: | 10.30 | 136.10 | T.PHOS: | 1.12 | 14.80 | 12 | 6 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: WELLAND CANAL | | | | | | | |
| | | | REMEDIAL MEASURE: COLLECTION SYSTEM UPGRADING | | | | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| PORT COLBORNE (WEST PL.)<br>120001336 | | | | | STANDBY FACILITY | | | |
| CITY | 10800 | | B O D: 0.00 | 0.00 | B O D: 0.00 | 0.00 | | |
| WEST PLANT (EXCESS Q FROM SEAWAY ONLY) | | | | | | | | |
| CAPACITY (MIGD): ( 1.350) | | ( .000 ) | S S : 0.00 | 0.00 | S S : 0.00 | 0.00 | | |
| 1000 CUBIC METRES: 6.137 | | .000 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 0.00 | 0.00 | T.PHOS: 0.00 | 0.00 | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | | WATERCOURSE: WELLAND CANAL | | | | |
| J DUMFRIES(ST GEORGE) ** *MIN*<br>110003415 | | | | | | | | |
| TOWNSHIP | 500 | | B O D: 93.00 | 32.55 | B O D: 1.10 | 0.39 | 12 | |
| ST GEORGE PV WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .234) | | ( .077 ) | S S : 100.00 | 35.00 | S S : 2.30 | 0.81 | 12 | |
| 1000 CUBIC METRES: 1.064 | | .350 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 5.60 | 1.96 | T.PHOS: 0.53 | 0.19 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | |
| | | | | WATERCOURSE: FAIRCHILD CREEK (N. BR) | | | | |
| SHELBURNE ** *MIN*<br>110000659 | | | | | | | | |
| TOWN | 4000 | | B O D: 132.00 | 210.01 | B O D: 3.40 | 5.41 | 12 | |
| SHELBURNE WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .450) | | ( .350 ) | S S : 188.00 | 299.11 | S S : 6.30 | 10.02 | 12 | |
| 1000 CUBIC METRES: 2.046 | | 1.591 | | | | | | |
| OXIDATION DITCH | | | T.PHOS: 6.40 | 10.18 | T.PHOS: 0.59 | 0.94 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | |
| | | | | WATERCOURSE: BOYNE RIVER | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | MONTHS OF EFFLUENT DATA | MONTHS EXCEEDED | COMPLIANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SIMCOE **<br>110000677 | | | | | | | | | | | |
| TOWN | 11961 | | B O D: | 408.00 | 3,867.84 | B O D: | 3.40 | 32.23 | 12 | | |
| SIMCOE WPCP | | | S S : | 330.00 | 3,128.40 | S S : | 3.30 | 31.28 | 12 | | |
| CAPACITY (MIGD): ( 3.400) | | ( 2.086 ) | T.PHOS: | 6.50 | 61.62 | T.PHOS: | 0.71 | 6.73 | 12 | | |
| 1000 CUBIC METRES: 15.456 | | 9.480 | | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | | | |
| | | | WATERCOURSE: LYNN RIVER | | | | | | | | |
| ST.CATHARINES (P.DALH.)<br>120001327 | | | | | | | | | | | |
| CITY | 60430 | | B O D: | 128.00 | 5,322.88 | B O D: | 11.40 | 474.07 | 12 | | 1 |
| PORT DALHOUSIE WPCP | | | S S : | 117.00 | 4,865.45 | S S : | 10.60 | 440.80 | 12 | | |
| CAPACITY (MIGD): ( 13.500) | | ( 9.149 ) | T.PHOS: | 3.80 | 158.02 | T.PHOS: | 0.38 | 15.80 | 12 | | |
| 1000 CUBIC METRES: 61.371 | | 41.585 | | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | WATERCOURSE: LAKE ONTARIO | | | | | | | | |
| ST.CATHARINES (P.WELLER)<br>120001318 | | | | | | | | | | | |
| CITY | 75690 | | B O D: | 95.00 | 3,995.42 | B O D: | 11.90 | 500.48 | 12 | | |
| PORT WELLER WPCP | | | S S : | 163.00 | 6,855.29 | S S : | 13.20 | 555.15 | 12 | | 1 |
| CAPACITY (MIGD): ( 8.250) | | ( 9.253 ) | T.PHOS: | 5.20 | 218.70 | T.PHOS: | 0.77 | 32.38 | 12 | | 2 |
| 1000 CUBIC METRES: 37.505 | | 42.057 | | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | WATERCOURSE: PORT WELLER HARBOUR | | | | | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| STONEY CREEK (BARTLETTS)<br>120003067 | | | | | | | | | |
| CITY | 170 | | | B O D: 0.00 | 0.00 | B O D: 19.20 | 2.78 | 1 | |
| BARTLETTS LAGOON PHASED OUT APR.1985 | | | | | | | | | |
| CAPACITY (MIGD): ( .020) | | ( .032 ) | | S S : 0.00 | 0.00 | S S : 18.20 | 2.64 | 1 | |
| 1000 CUBIC METRES: .091 | | .145 | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 0.00 | 0.00 | T.PHOS: 2.55 | 0.37 | 1 | |
| | | | | WATERCOURSE: LAKE ONTARIO | | | | | |
| WATERLOO #MIN#<br>110000793 | | | | | | | | | |
| CITY | 66627 | | | B O D: 218.00 | 9,860.14 | B O D: 6.80 | 307.56 | 12 | |
| WATERLOO WPCP | | | | | | | | | |
| CAPACITY (MIGD): ( 10.000) | | ( 9.951 ) | | S S : 402.00 | 18,182.46 | S S : 8.90 | 402.55 | 12 | |
| 1000 CUBIC METRES: 45.460 | | 45.230 | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | | | | T.PHOS: 6.40 | 289.47 | T.PHOS: 0.75 | 33.92 | 12 | 1 |
| | | | | WATERCOURSE: GRAND RIVER | | | | | |
| WELLAND<br>120001309 | | | | | | | | | |
| CITY | 47205 | | | B O D: 90.00 | 3,225.60 | B O D: 11.50 | 412.16 | 12 | |
| WELLAND WPCP | | | | | | | | | |
| CAPACITY (MIGD): ( 10.000) | | ( 7.885 ) | | S S : 111.00 | 3,978.24 | S S : 12.00 | 430.08 | 12 | 1 |
| 1000 CUBIC METRES: 45.460 | | 35.840 | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | | | | T.PHOS: 4.00 | 143.36 | T.PHOS: 0.76 | 27.24 | 12 | 2 |
| | | | | WATERCOURSE: WELLAND RIVER | | | | | |

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|
| WELLESLEY *MIN* | | | | | | | | | |
| 110001578 | | | | | | | | | |
| TOWNSHIP | 950 | | B O D: 148.00 | 71.63 | B O D: 4.70 | 2.27 | 12 | | |
| WELLESLEY WPCP | | | | | | | | | |
| CAPACITY (MIGD): ( .110) | | ( .106 ) | S S : 154.00 | 74.54 | S S : 14.30 | 6.92 | 12 | | |
| 1000 CUBIC METRES: .500 | | .484 | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 5.40 | 2.61 | T.PHOS: 0.84 | 0.41 | 12 | 3 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| | | | WATERCOURSE: NITH RIVER | | | | | | |
| WEST LINCOLN (SMITHVILLE | | | | | | | | | |
| 120001229 | | | | | | | | | |
| TOWNSHIP | 1980 | | B O D: 90.00 | 89.73 | B O D: 17.40 | 17.35 | 3 | | |
| SMITHVILLE LAGOON | | | | | | | | | |
| CAPACITY (MIGD): ( .344) | | ( .219 ) | S S : 103.00 | 102.69 | S S : 31.90 | 31.80 | 3 | | |
| 1000 CUBIC METRES: 1.564 | | .997 | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 5.40 | 5.38 | T.PHOS: 2.77 | 2.76 | 3 | | |
| | | | WATERCOURSE: TWENTY MILE CREEK | | | | | | |
| WILMOT (BADEN) *MIN* | | | | | | | | | |
| 110001710 | | | | | | | | | |
| TOWNSHIP | 1016 | | B O D: 285.00 | 179.27 | B O D: 3.00 | 1.89 | 12 | | |
| BADEN WPCP | | | | | | | | | |
| CAPACITY (MIGD): ( .203) | | ( .138 ) | S S : 219.00 | 137.75 | S S : 6.10 | 3.84 | 12 | | |
| 1000 CUBIC METRES: .923 | | .629 | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 11.90 | 7.49 | T.PHOS: 0.90 | 0.57 | 12 | 4 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| | | | WATERCOURSE: BADEN CREEK | | | | | | |

WEST-CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT<br>ANNUAL AVERAGE | | EFFLUENT<br>ANNUAL AVERAGE | | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| **WILMOT (NEW HAMBURG) ** *MIN***<br>110000506 | | | | | | | | |
| TOWNSHIP | 3787 | | B O D: 125.00 | 209.13 | B O D: 2.60 | 4.35 | 10 | |
| NEW HAMBURG LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .600) | | ( .368 ) | S S : 147.00 | 245.93 | S S : 4.80 | 8.03 | 10 | |
| 1000 CUBIC METRES: 2.728 | | 1.673 | | | | | | |
| AERATED CELL PLUS LAGOON | | | T.PHOS: 6.80 | 11.38 | T.PHOS: 0.92 | 1.54 | 10 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | |
| WATERCOURSE: NITH RIVER | | | | | | | | |
| **WOOLWICH (ELMIRA ) *MIN***<br>110000150 | | | | | | | | |
| TOWNSHIP | 7090 | | B O D: 0.00 | 0.00 | B O D: 30.80 | 124.80 | 12 | 5 |
| ELMIRA WPCP (COMBINED FLOW) | | | | | | | | |
| CAPACITY (MIGD): ( .680) | | ( .891 ) | S S : 0.00 | 0.00 | S S : 45.80 | 185.58 | 12 | 6 |
| 1000 CUBIC METRES: 3.091 | | 4.052 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 0.00 | 0.00 | T.PHOS: 2.34 | 9.48 | 12 | 11 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| WATERCOURSE: CANAGAGIGUE CREEK | | | | | | | | |
| REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | | |
| **WOOLWICH (ST.JACOBS) *MIN***<br>110001211 | | | | | | | | |
| TOWNSHIP | 1266 | | B O D: 167.00 | 186.54 | B O D: 6.70 | 7.48 | 12 | |
| ST.JACOBS PV WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .210) | | ( .246 ) | S S : 143.00 | 159.73 | S S : 25.30 | 28.26 | 12 | 5 |
| 1000 CUBIC METRES: .955 | | 1.117 | | | | | | |
| OXIDATION DITCH | | | T.PHOS: 4.10 | 4.58 | T.PHOS: 0.70 | 0.78 | 12 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| WATERCOURSE: CONESTOGO RIVER | | | | | | | | |

# WEST CENTRAL REGION

## WASTEWATER TREATMENT

# REGIONAL MUNICIPALITIES

| REGIONAL MUNICIPALITIES | CAPACITY $1000m^3$ | CAPACITY MIGD |
|---|---|---|
| HALDIMAND - NORFOLK | 39.1 | 8.6 |
| HAMILTON - WENTWORTH | 430.1 | 94.6 |
| NIAGARA | 271.6 | 59.7 |
| WATERLOO | 242.4 | 53.3 |
| TOTAL | 983.2 | 216.2 |

REGIONAL MUNICIPALITY OF HALDIMAND-NORFOLK

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD (1000M3) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| DELHI<br>TOWNSHIP<br>DELHI WPCP<br>120001425 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | BIG CREEK | .700<br>( 3.182) | 3839 | MINISTRY |
| DUNNVILLE<br>TOWN<br>DUNNVILLE WPCP<br>120001443 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | GRAND RIVER | 1.700<br>( 7.728) | 5471 | MINISTRY |
| DUNNVILLE (OSWEGO PARK)<br>TOWN<br>OSWEGO PARK LAGOON<br>110003068 | CONVENTIONAL LAGOON ANNUAL | OSWEGO CREEK | .020<br>( .091) | 250 | MINISTRY |
| HALDIMAND (CALEDONIA)<br>TOWN<br>CALEDONIA WPCP<br>120001452 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | GRAND RIVER | .500<br>( 2.273) | 4237 | MINISTRY |
| HALDIMAND (CAYUGA)<br>TOWN<br>CAYUGA WPCP<br>110000089 | OXIDATION DITCH<br>PHOSPHORUS REMOVAL-CONTINUOUS | GRAND RIVER | .200<br>( .909) | 1049 | MINISTRY |
| HALDIMAND (HAGERSVILLE)<br>TOWN<br>HAGERSVILLE WPCP<br>110001024 | EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | SANDUSK CREEK | .220<br>( 1.000) | 2362 | MINISTRY |
| NANTICOKE (JARVIS)<br>CITY<br>JARVIS LAGOON<br>120001434 | CONVENTIONAL LAGOON SEASONAL<br>PHOSPHORUS REMOVAL - BATCH | SANDUSK CREEK | .120<br>( .546) | 1190 | MINISTRY |
| NANTICOKE (PORT DOVER)<br>CITY<br>PORT DOVER WPCP<br>110000604 | PRIMARY<br>PHOSPHORUS REMOVAL-CONTINUOUS | LAKE ERIE | .900<br>( 4.091) | 3475 | MINISTRY |

REGIONAL MUNICIPALITY OF HALDIMAND-NORFOLK

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD (1000M3) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| NANTICOKE (STELCO IND.P)<br>CITY<br>STELCO IND. PARK LAGOON<br>110003371 | CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL-CONTINUOUS | CENTER CR | .010 ( .045) | 0 | MINISTRY |
| NANTICOKE (TOWNSEND)<br>CITY<br>TOWNSEND LAGOON (NO DISCH.'85)<br>110003424 | CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH | NANTICOKE CREEK | .210 ( .955) | 200 | MINISTRY |
| NANTICOKE (WATERFORD)<br>CITY<br>WATERFORD LAGOON<br>110001195 | AERATED CELL PLUS LAGOON PHOSPHORUS REMOVAL-CONTINUOUS | NANTICOKE CREEK | .470 ( 2.137) | 2364 | MINISTRY |
| NORFOLK (PORT ROWAN)<br>TOWNSHIP<br>PORT ROWAN LAGOON<br>110001113 | CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH | DEDRICH CREEK | .160 ( .727) | 720 | MINISTRY |
| SIMCOE **<br>TOWN<br>SIMCOE WPCP<br>110000677 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS EFFLUENT POLISHING | LYNN RIVER | 3.400 ( 15.456) | 11961 | MINISTRY |
| | | TOTAL CAPACITY | 8.610 ( 39.141) | | |

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD (1000M3) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| DUNDAS ** TOWN DUNDAS KING ST.WPCP 120001372 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS EFFLUENT POLISHING | COOTES PARADISE | 4.000 ( 18.184) | 19501 | MUNICIPALITY |
| FLAMBOROUGH (WATERDOWN** TOWN WATERDOWN WPCP 120005001 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS EFFLUENT POLISHING | GRINDSTONE CREEK | .600 ( 2.728) | 3900 | MUNICIPALITY |
| HAMILTON (WOODWARD) CITY WOODWARD AVE.WPCP (P.REM WITHOUT CHEM) 120001504 | CONVENTIONAL ACTIVATED SLUDGE | REDHILL CREEK | 90.000 ( 409.140) | 300000 | MUNICIPALITY |
| STONEY CREEK (BARTLETTS) CITY BARTLETTS LAGOON PHASED OUT APR.1985 120[illegible]3067 | CONVENTIONAL LAGOON SEASONAL | LAKE ONTARIO | .020 ( .091) | [illegible].0 | MUNICIPALITY |
| | | TOTAL CAPACITY | 94.620 ( 430.143) | | |

REGIONAL MUNICIPALITY OF NIAGARA

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD ( 1000M3) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| FORT ERIE (ANGER AVE.)<br>TOWN<br>ANGER AVE.WPCP<br>120001292 | PRIMARY<br>PHOSPHORUS REMOVAL-CONTINUOUS | NIAGARA RIVER | 3.600<br>( 16.366) | 13765 | MUNICIPALITY |
| FORT ERIE(CRYSTAL BEACH)<br>TOWN<br>CRYSTAL BEACH WPCP<br>120001283 | EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | LAKE ERIE | .855<br>( 3.887) | 4095 | MUNICIPALITY |
| FORT ERIE(STEVENSVILLE)<br>TOWN<br>STEVENSVILLE-DOUGLASTOWN LAGOON<br>120003110 | CONVENTIONAL LAGOON CONTINUOUS | NIAGARA RIVER | .504<br>( 2.291) | 1500 | MUNICIPALITY |
| GRIMSBY (BAKER ROAD)<br>TOWN<br>BAKER ROAD WPCP<br>120001684 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | LAKE ONTARIO | 4.000<br>( 18.184) | 19850 | MUNICIPALITY |
| GRIMSBY (BIGGAR)<br>TOWN<br>BIGGAR LAGOON<br>120001256 | AERATED CELL PLUS LAGOON | LAKE ONTARIO | .250<br>( 1.137) | 1075 | MUNICIPALITY |
| NIAGARA FALLS (STAMFORD)<br>CITY<br>STAMFORD WPCP<br>120001363 | PRIMARY<br>PHOSPHORUS REMOVAL-CONTINUOUS | CHIPPAWA POWER CANAL | 12.800<br>( 58.189) | 67835 | MUNICIPALITY |
| NIAGARA-ON-THE-LAKE(GAR)<br>TOWN<br>GARDEN CITY RACEWAY LAGOON<br>120003236 | CONVENTIONAL LAGOON SEASONAL | DITCH TO SIX MILE CREEK | .140<br>( .636) | 150 | MUNICIPALITY |
| NIAGARA-ON-THE-LAKE(NIA)<br>TOWN<br>NIAGARA-ON-THE-LAKE LAGOON<br>120001238 | AERATED CELL PLUS LAGOON | LAKE ONTARIO | .845<br>( 3.841) | 5210 | MUNICIPALITY |

## REGIONAL MUNICIPALITY OF NIAGARA

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD ($m^3$/d (1000M)) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| PORT COLBORNE (SEAWAY)<br>CITY<br>SEAWAY WPCP<br>120001906 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | WELLAND CANAL | 3.300<br>( 15.002) | 15825 | MUNICIPALITY |
| PORT COLBORNE (WEST PL.)<br>CITY<br>WEST PLANT (EXCESS Q FROM SEAWAY ONLY)<br>120001336 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | WELLAND CANAL | 1.350<br>( 6.137) | 10800 | MUNICIPALITY |
| ST.CATHARINES (P.DALH.)<br>CITY<br>PORT DALHOUSIE WPCP<br>120001327 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | LAKE ONTARIO | 13.500<br>( 61.371) | 60430 | MUNICIPALITY |
| ST.CATHARINES (P.WELLER)<br>CITY<br>PORT WELLER WPCP<br>120001318 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | PORT WELLER HARBOUR | 8.250<br>( 37.505) | 75690 | MUNICIPALITY |
| WELLAND<br>CITY<br>WELLAND WPCP<br>120001309 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | WELLAND RIVER | 10.000<br>( 45.460) | 47205 | MUNICIPALITY |
| WEST LINCOLN (SMITHVILLE<br>TOWNSHIP<br>SMITHVILLE LAGOON<br>120001229 | CONVENTIONAL LAGOON SEASONAL | TWENTY MILE CREEK | .344<br>( 1.564) | 1980 | MUNICIPALITY |
| | | TOTAL CAPACITY | 59.738<br>( 271.569) | | |

REGIONAL MUNICIPALITY OF WATERLOO

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD ($m^3$/d) (1000M) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| CAMBRIDGE (GALT)<br>CITY<br>GALT WPCP<br>110000276 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | GRAND RIVER | 8.500<br>( 38.641) | 44966 | MINISTRY |
| CAMBRIDGE (HESPELER)<br>CITY<br>HESPELER WPCP<br>110001033 | HIGH RATE<br>PHOSPHORUS REMOVAL-CONTINUOUS | SPEED RIVER | 2.050<br>( 9.319) | 10110 | MINISTRY |
| CAMBRIDGE (PRESTON)<br>CITY<br>PRESTON WPCP<br>110000622 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | GRAND RIVER | 3.710<br>( 16.866) | 19673 | MINISTRY |
| KITCHENER<br>CITY<br>KITCHENER WPCP<br>110000374 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | GRAND RIVER | 27.000<br>( 122.742) | 138271 | MINISTRY |
| NORTH DUMFRIES (AYR)<br>TOWNSHIP<br>AYR PV WPCP<br>110001943 | EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | NITH RIVER | .260<br>( 1.182) | 1281 | MINISTRY |
| WATERLOO<br>CITY<br>WATERLOO WPCP<br>110000793 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | GRAND RIVER | 10.000<br>( 45.460) | 66627 | MINISTRY |
| WELLESLEY<br>TOWNSHIP<br>WELLESLEY WPCP<br>110001578 | EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | NITH RIVER | .110<br>( .500) | 950 | MINISTRY |
| WILMOT (BADEN)<br>TOWNSHIP<br>BADEN WPCP<br>110001710 | EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | BADEN CREEK | .203<br>( .923) | 1016 | MINISTRY |

REGIONAL MUNICIPALITY OF WATERLOO

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD (1000M3) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| WILMOT (NEW HAMBURG) ## TOWNSHIP NEW HAMBURG LAGOON 110000506 | AERATED CELL PLUS LAGOON PHOSPHORUS REMOVAL-CONTINUOUS EFFLUENT POLISHING | NITH RIVER | .600 ( 2.728) | 3787 | MINISTRY |
| WOOLWICH (ELMIRA ) TOWNSHIP ELMIRA WPCP (COMBINED FLOW) 110000150 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS | CANAGAGIGUE CREEK | .680 ( 3.091) | 7090 | MINISTRY |
| WOOLWICH (ST.JACOBS) TOWNSHIP ST.JACOBS PV WPCP 110001211 | OXIDATION DITCH PHOSPHORUS REMOVAL-CONTINUOUS | CONESTOGO RIVER | .210 ( .955) | 1266 | MINISTRY |
| | | TOTAL CAPACITY | 53.323 ( 242.406) | | |

WEST CENTRAL REGION

# AREA WASTEWATER TREATMENT SYSTEMS

| TOTAL AREA WASTEWATER TREATMENT SYSTEMS | TOTAL CAPACITY $1000m^3$ | MIGD |
|---|---|---|
| FIVE . . . . . | 594.4 | 130.6 |

**SYSTEM:** **FORT ERIE POLLUTION CONTROL SYSTEM**

Number of Plants: Three
Operated by: Regional Municipality of Niagara

Number of Municipalities Served: One

| PLANT LOCATION | TREATMENT | CAPACITY | MUNICIPALITIES SERVED | WATERCOURSE |
|---|---|---|---|---|
| FORT ERIE CITY<br>- Anger Ave.<br>120001292 | Primary | 3.6 MIGD<br>(16.4 1000$m^3$/d) | Fort Erie City | Niagara River |
| - Crystal Beach<br>120001283 | Ext. Aeration | 0.9 MIGD<br>(4.1 1000$m^3$/d) | | Lake Erie |
| - Stevensville-Douglas Town<br>120003110 | Lagoon | 0.5 MIGD<br>(2.3 1000$m^3$/d) | | Niagara River |

**SYSTEM: GRIMSBY/LINCOLN POLLUTION CONTROL SYSTEM**

Number of Plants: One
Operated by: Regional Municipality of Niagara

Number of Municipalities Served: Two

| PLANT LOCATION | TREATMENT | CAPACITY | MUNICIPALITIES SERVED | WATERCOURSE |
|---|---|---|---|---|
| GRIMSBY TOWN<br>- Baker Road. WPCP<br>120001684 | Conv. Act. Sludge<br>Phosphorus Removal | 4.0 MIGD<br>(18.2 1000m³/d) | Grimsby Town<br>Lincoln Town | Lake Ontario |

**SYSTEM: HAMILTON POLLUTION CONTROL SYSTEM**

Number of Plants: One
Operated by: Regional Municipality of Hamilton-Wentworth

Number of Municipalities Serviced: Three

| PLANT LOCATION | TREATMENT | CAPACITY | MUNICIPALITIES SERVED | WATERCOURSE |
|---|---|---|---|---|
| HAMILTON CITY<br>- Woodward Ave. WPCP<br>120001504 | *Conv. Act. Sludge | 90.0 MIGD<br>(409.1 1000m³/d) | Hamilton City<br>Ancaster Town<br>Stoney Creek Town | Lake Ontario<br>- Hamilton Harbour |

*Note: Phosphorus Removal is achieved without chemical feed at the treatment plant due to the nature of the wastes.

**SYSTEM: ST CATHARINES POLLUTION CONTROL SYSTEM**

Number of Plants: Two
Operated by: Regional Municipality of Niagara

Number of Municipalities Served: Two

| PLANT LOCATION | TREATMENT | CAPACITY | MUNICIPALITIES SERVED | WATERCOURSE |
|---|---|---|---|---|
| ST. CATHARINES CITY<br>- Port Dalhousie WPCP<br>120001327 | Con. Act. Sludge<br>Phosphorus Removal | 13.50 MIGD<br>(61.37 1000m³/d) | St. Catharines<br>Thorold City | Lake Ontario |
| ST. CATHARINES CITY<br>- Port Weller WPCP<br>120001318 | Conv. Act. Sludge<br>Phosphorus Removal | 8.25 MIGD<br>(37.50 1000m³/d) | St. Catharines<br>Thorold City | Port Weller Harbour<br>Lake Ontario |

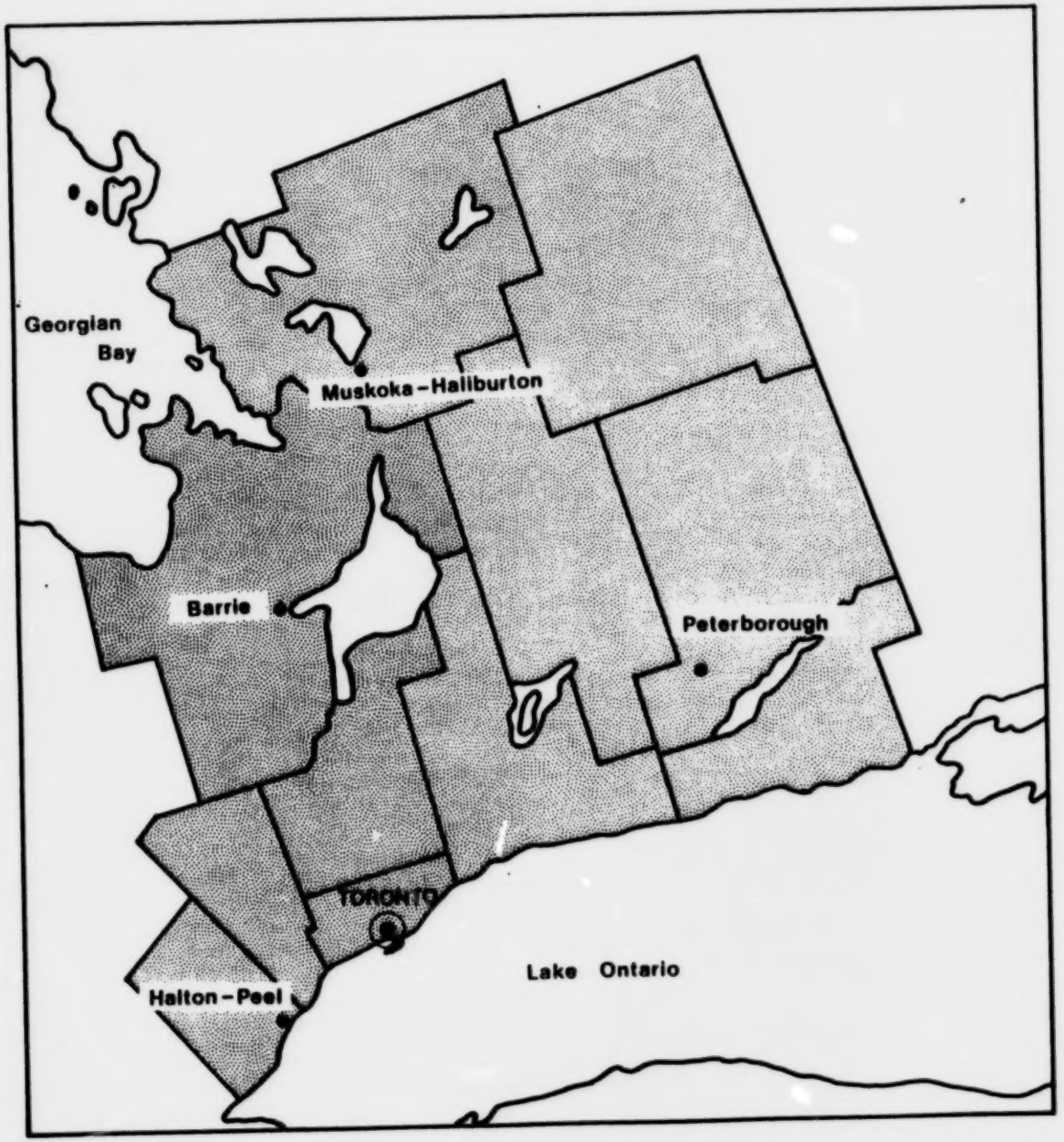
**SYSTEM: WELLAND POLLUTION CONTROL SYSTEM**

Number of Plants: One
Operated by: Regional Municipality of Niagara

Number of Municipalities Served: Two

| PLANT LOCATION | TREATMENT | CAPACITY | MUNICIPALITIES SERVED | WATERCOURSE |
|---|---|---|---|---|
| WELLAND CITY<br>- Welland WPCP<br>120001309 | Conv. Act. Sludge<br>Phosphorus Removal | 10.0 MIGD<br>(45.4 1000m³/d) | Welland City<br>Pelham Town | Welland River |

Central Region ③ Ministry of the Environment Ontario



## REGIONAL OFFICES

Toronto
7 Overlea Blvd.
M4E 1A8
416 424-3000

## DISTRICT OFFICES

Barrie
12 Fairview Rd.
L4N 4P3
705 726-1730

Halton-Peel
1226 White Oaks Blvd.
Oakville
L6H 2B9
416 844-5747

Metro Toronto East
7 overlea Blvd.
Toronto
M4E 1A8
416 424-3000

Metro Toronto West
7 Overlea Blvd.
Toronto
M4E 1A8
416 424-3000

Muskoka-Haliburton
Gravenhurst Shopping
Centre
P0C 1G0
705 687-3408

Peterborough
139 George St. N.
K9J 3G6
705 743-2972

York-Durham
7 Overlea Blvd.
Toronto
M4E 1A8
416 424-3000

CENTRAL REGION SUMMARY

| TREATMENT TYPE | <---------- NUMBER ----------> | | | <---------- ** CAPACITY MIGD ** (1000M$^3$) ----------> | | |
|---|---|---|---|---|---|---|
| | MINISTRY | MUNICIPAL | TOTAL | MINISTRY | MUNICIPAL | TOTAL |
| COMMUNAL SEPTIC TANK | 0 | 1 | 1 | .000 | .020 | .020 ( .091) |
| CONVENTIONAL ACTIVATED SLUDGE | 3 | 27 | 30 | 87.800 | 472.040 | 559.840 (2,545.033) |
| CONTACT STABILIZATION | 1 | 1 | 2 | .230 | .660 | .890 ( 4.046) |
| EXTENDED AERATION | 9 | 12 | 21 | 5.929 | 7.337 | 13.266 ( 60.307) |
| TRICKLING FILTER | 0 | 2 | 2 | .000 | 8.000 | 8.000 ( 36.368) |
| HIGH RATE | 0 | 1 | 1 | .000 | 2.000 | 2.000 ( 9.092) |
| OXIDATION DITCH | 3 | 0 | 3 | .613 | .000 | .613 ( 2.787) |
| CONVENTIONAL LAGOON CONTINUOUS | 0 | 3 | 3 | .000 | 4.112 | 4.112 ( 18.693) |
| CONVENTIONAL LAGOON SEASONAL | 1 | 6 | 7 | .128 | 2.125 | 2.253 ( 10.242) |
| LAGOON AND SPRAY | 1 | 0 | 1 | .135 | .000 | .135 ( .614) |
| AERATED CELL PLUS LAGOON | 0 | 2 | 2 | .000 | 1.080 | 1.080 ( 4.910) |
| EXFILTRATION LAGOON | 1 | 1 | 2 | .300 | .100 | .400 ( 1.818) |
| #### TOTALS #### | 19 | 56 | 75 | 95.135 ( 432.484) | 497.474 (2,261.517) | 592.609 (2,694.001) |

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
1000M$^3$ :THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MIGD = 4.546 1000M$^3$

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE<br>CONC. (MG/L) | INFLUENT ANNUAL AVERAGE<br>LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE<br>CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE<br>LOADING KG/DAY | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | COMPLIANCE<br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| ALLISTON *MIN* 110001220 | | | | | | | | |
| TOWN | 4674 | | BOD: 224.00 | 624.74 | BOD: 6.70 | 18.69 | 12 | |
| ALLISTON WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .770) | | ( .614 ) | SS: 286.00 | 797.65 | SS: 13.30 | 37.09 | 12 | 2 |
| 1000 CUBIC METRES: 3.500 | | 2.789 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 8.20 | 22.87 | T.PHOS: 6.09 | 16.99 | 12 | |
| | | | WATERCOURSE: BOYNE RIVER | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | |
| ANSON HINDON MINDEN 110002390 | | | | | | | | |
| TOWNSHIP | 930 | | BOD: 82.00 | 61.58 | BOD: 1.60 | 1.20 | 10 | |
| MINDEN WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .208) | | ( .165 ) | SS: 96.00 | 72.10 | SS: 2.40 | 1.80 | 10 | |
| 1000 CUBIC METRES: .946 | | .751 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 5.00 | 3.76 | T.PHOS: 0.47 | 0.35 | 8 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | |
| | | | WATERCOURSE: GULL RIVER | | | | | |
| BARRIE 120000578 | | | | | | | | |
| CITY | 40000 | | BOD: 184.00 | 4,804.98 | BOD: 6.70 | 174.96 | 12 | |
| BARRIE WPCP | | | | | | | | |
| CAPACITY (MIGD): ( 6.000) | | ( 5.745 ) | SS: 210.00 | 5,483.94 | SS: 12.60 | 329.04 | 12 | |
| 1000 CUBIC METRES: 27.276 | | 26.114 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 8.40 | 219.36 | T.PHOS: 0.50 | 13.06 | 11 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: KEMPENFELT BAY L. SIMCOE | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT<br>ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | EFFLUENT<br>ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | COMPLIANCE<br>MONTHS OF DATA | MONTHS EFFLUENT EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| BEETON *MIN* 110000917 | | | | | | | | | | |
| VILLAGE | 2105 | | | | | NO 1985 DISCHARGE | | | | |
| BEETON LAGOON | | | B O D: | 112.00 | 102.26 | B O D: | 0.00 | 0.00 | | |
| CAPACITY (MIGD): ( .300) | | ( .201 ) | | | | | | | | |
| 1000 CUBIC METRES: 1.364 | | .913 | S S : | 141.00 | 128.73 | S S : | 0.00 | 0.00 | | |
| EXFILTRATION LAGOON | | | T.PHOS: | 6.40 | 5.84 | T.PHOS: | 0.00 | 0.00 | | |
| | | | WATERCOURSE: NO DISC.TO SURFACE WATER | | | | | | | |
| BICROFT (CARDIFF) 120001032 | | | | | | | | | | |
| TOWNSHIP | 741 | | | | | NO 1985 DISCHARGE | | | | |
| CARDIFF LAGOON | | | B O D: | 0.00 | | B O D: | 0.00 | | | |
| CAPACITY (MIGD): ( .100) | | ( ) | | | | | | | | |
| 1000 CUBIC METRES: .455 | | | S S : | 0.00 | | S S : | 0.00 | | | |
| EXFILTRATION LAGOON | | | T.PHOS: | 0.00 | | T.PHOS: | 0.00 | | | |
| | | | WATERCOURSE: NO DISC.TO SURFACE WATER | | | | | | | |
| BOBCAYGEON *MIN* 110002498 | | | | | | | | | | |
| VILLAGE | 1130 | | B O D: | 95.00 | 83.41 | B O D: | 3.90 | 3.42 | 12 | |
| BOBCAYGEON WPCP(SUMMER POPSERVE 2260) | | | | | | | | | | |
| CAPACITY (MIGD): ( .672) | | ( .193 ) | S S : | 114.00 | 100.09 | S S : | 8.30 | 7.29 | 12 | |
| 1000 CUBIC METRES: 3.055 | | .878 | | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: | 4.40 | 3.86 | T.PHOS: | 0.52 | 0.46 | 12 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | WATERCOURSE: BOBCAYGEON RIVER | | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER / EXISTING CAPACITY AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD) 1000 CUBIC METRES | INFLUENT | ANNUAL AVERAGE CONC. (MG/L) | ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT | ANNUAL AVERAGE CONC. (MG/L) | ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE # OF DATA | COMPLIANCE # MONTHS EFFLUENT EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| BRACEBRIDGE ## 110000034 | | | | | | | | | | |
| TOWN | 5765 | | B O D: | 85.00 | 228.14 | B O D: | 3.20 | 8.59 | 8 | |
| BRACEBRIDGE MPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( .702) | | ( .590 ) | S S : | 162.00 | 434.81 | S S : | 9.90 | 26.57 | 8 | |
| 1000 CUBIC METRES: 3.191 | | 2.684 | | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: | 6.70 | 17.98 | T.PHOS: | 0.51 | 1.37 | 8 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | | |
| | | | WATERCOURSE: MUSKOKA RIVER | | | | | | | |
| BRADFORD ## #MIN# 110000944 | | | | | | | | | | |
| TOWN | 8500 | | B O D: | 171.00 | 533.18 | B O D: | 6.40 | 19.96 | 12 | |
| BRADFORD MPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 1.500) | | ( .686 ) | S S : | 501.00 | 1,562.12 | S S : | 6.30 | 19.64 | 12 | |
| 1000 CUBIC METRES: 6.819 | | 3.118 | | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: | 7.30 | 22.76 | T.PHOS: | 0.40 | 1.25 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | | |
| | | | WATERCOURSE: SCHOMBERG RIVER | | | | | | | |
| BRIGHTON 110000953 | | | | | | | | | | |
| TOWN | 3535 | | B O D: | 62.00 | 153.51 | B O D: | 7.10 | 17.58 | 12 | |
| BRIGHTON LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .850) | | ( .545 ) | S S : | 86.00 | 212.94 | S S : | 15.00 | 37.14 | 12 | 1 |
| 1000 CUBIC METRES: 3.864 | | 2.476 | | | | | | | | |
| AERATED CELL PLUS LAGOON | | | T.PHOS: | 5.00 | 12.38 | T.PHOS: | 1.02 | 2.53 | 12 | 3 |
| CONTINUOUS DISCHARGE | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: BUTLER CREEK | | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | EFFLUENT ANNUAL AVERAGE | | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | <br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| BROCK (BEAVERTON R.2)<br>110001248<br>TOWNSHIP<br>BEAVERTON RIVER 2 LAGOON (CANNINGTON)<br>CAPACITY (MIGD): ( .203)<br>1000 CUBIC METRES: .923<br>CONVENTIONAL LAGOON SEASONAL<br>PHOSPHORUS REMOVAL-CONTINUOUS | 1835 | ( .173 )<br>.787 | B O D: 115.00<br>S S : 205.00<br>T.PHOS: 5.20 | 90.51<br>161.34<br>4.09 | B O D: 28.10<br>S S : 50.10<br>T.PHOS: 1.11 | 22.11<br>39.43<br>0.87 | 2<br>2<br>2 | 1<br>2<br>1 |
| WATERCOURSE: BEAVERTON RIVER | | | | | | | | |
| BROCK (BEAVERTON R.1) **<br>120003496<br>TOWNSHIP<br>BEAVERTON RIVER 1 LAGOON (SUNDERLAND)<br>CAPACITY (MIGD): ( .167)<br>1000 CUBIC METRES: .759<br>CONVENTIONAL LAGOON CONTINUOUS<br>EXFILTRATION LAGOON | 875 | ( .113 )<br>.513 | NO 1985 DISCHARGE<br>B O D: 383.00<br>S S : 724.00<br>T.PHOS: 12.90 | 196.48<br>371.41<br>6.62 | B O D: 0.00<br>S S : 0.00<br>T.PHOS: 0.00 | 0.00<br>0.00<br>0.00 | | |
| WATERCOURSE: NO DISC.TO SURFACE WATER | | | | | | | | |
| BROCK (LAKE SIMCOE)<br>110000908<br>TOWNSHIP<br>LAKE SIMCOE LAGOON (BEAVERTON)<br>CAPACITY (MIGD): ( .382)<br>1000 CUBIC METRES: 1.737<br>CONVENTIONAL LAGOON SEASONAL<br>PHOSPHORUS REMOVAL-CONTINUOUS | 2570 | ( .342 )<br>1.553 | B O D: 145.00<br>S S : 206.00<br>T.PHOS: 10.70 | 225.19<br>319.92<br>16.62 | B O D: 8.60<br>S S : 26.90<br>T.PHOS: 0.24 | 13.36<br>41.78<br>0.37 | 2<br>2<br>2 | <br>1<br> |
| WATERCOURSE: LAKE SIMCOE | | | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| BURLINGTON (SKYWAY) | | | | | | | | | | |
| 110000070 | | | | | | | | | | |
| CITY | 120100 | | | B O D: 159.00 | 10,652.21 | B O D: | 9.20 | 616.35 | 12 | |
| SKYWAY WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 20.500) | | ( 14.739 ) | | S S : 185.00 | 12,394.08 | S S : | 7.40 | 495.76 | 12 | |
| 1000 CUBIC METRES: 93.193 | | 66.995 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 6.50 | 435.47 | T.PHOS: | 0.73 | 48.91 | 12 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | | WATERCOURSE: HAMILTON HARBOUR | | | | | |
| CALEDON (BOLTON) ** | | | | | | | | | | |
| 120000694 | | | | | | | | | | |
| TOWN | 7939 | | | B O D: 212.00 | 869.20 | B O D: | 2.90 | 11.89 | 10 | |
| BOLTON WPCP PHASED OUT OCT 1985 | | | | | | | | | | |
| CAPACITY (MIGD): ( 1.000) | | ( .902 ) | | S S : 259.00 | 1,061.90 | S S : | 4.10 | 16.81 | 10 | |
| 1000 CUBIC METRES: 4.546 | | 4.100 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 8.30 | 34.03 | T.PHOS: | 0.47 | 1.93 | 10 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | | |
| | | | | | WATERCOURSE: HUMBER RIVER | | | | | |
| CAMPBELLFORD *MIN* | | | | | | | | | | |
| 110000962 | | | | | | | | | | |
| TOWN | 3196 | | | B O D: 27.00 | 183.28 | B O D: | 6.40 | 43.44 | 12 | |
| CAMPBELLFORD WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 1.300) | | ( 1.493 ) | | S S : 51.00 | 346.19 | S S : | 5.50 | 37.33 | 12 | |
| 1000 CUBIC METRES: 5.910 | | 6.788 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 1.80 | 12.22 | T.PHOS: | 0.85 | 5.77 | 11 | 3 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | | WATERCOURSE: TRENT RIVER | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| COBOURG (1)<br>120000097<br>TOWN<br>COBOURG WPCP NO 1<br>CAPACITY (MIGD): ( 3.530)<br>1000 CUBIC METRES: 16.047<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 6000 | ( 1.876 )<br>8.529 | B O D: 429.00<br>S S : 311.00<br>T.PHOS: 6.80 | 3,658.94<br>2,652.52<br>58.00 | B O D: 14.70<br>S S : 10.90<br>T.PHOS: 1.53 | 125.38<br>92.97<br>13.05 | 11<br>11<br>10 | 1<br><br>3 |
| WATERCOURSE: COBOURG BROOK<br>REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | | | | |
| COBOURG (2)<br>120003192<br>TOWN<br>COBOURG WPCP NO 2<br>CAPACITY (MIGD): ( 1.290)<br>1000 CUBIC METRES: 5.864<br>EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | 5500 | ( .997 )<br>4.531 | B O D: 88.00<br>S S : 153.00<br>T.PHOS: 3.10 | 398.73<br>693.24<br>14.05 | B O D: 18.60<br>S S : 14.20<br>T.PHOS: 1.93 | 84.28<br>64.34<br>8.74 | 12<br>12<br>12 | 1<br><br>9 |
| WATERCOURSE: LAKE ONTARIO<br>REMEDIAL MEASURE: PROCESS/EQUIPMENT IMPROVEMENTS | | | | | | | | |
| COLDWATER #MIN#<br>110001596<br>VILLAGE<br>COLDWATER WPCP<br>CAPACITY (MIGD): ( .120)<br>1000 CUBIC METRES: .546<br>EXTENDED AERATION | 761 | ( .103 )<br>.466 | B O D: 98.00<br>S S : 111.00<br>T.PHOS: 4.10 | 45.67<br>51.73<br>1.91 | B O D: 7.60<br>S S : 21.40<br>T.PHOS: 3.03 | 3.54<br>9.97<br>1.41 | 11<br>11<br>10 | <br>1<br> |
| WATERCOURSE: COLDWATER RIVER | | | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EFFLUENT EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| COLLINGWOOD<br>120000550<br>TOWN | 11500 | | | | | | | | |
| COLLINGWOOD WPCP | | | | B O D: | 163.00 | 3,022.84 | B O D: 5.70 | 105.71 | 12 | |
| CAPACITY (MIGD): | ( 5.400) | ( | 4.080 ) | S S : | 131.00 | 2,429.40 | S S : 12.50 | 231.81 | 12 | 1 |
| 1000 CUBIC METRES: | 24.548 | | 18.545 | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: | 11.10 | 205.85 | T.PHOS: 1.91 | 35.42 | 12 | 10 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | WATERCOURSE: GEORGIAN BAY | | | | | | |
| | | | | REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | | |
| CRAMAHE (COLBORNE) ** | | | | | | | | | | |
| 120000088 | | | | | | | | | | |
| TOWNSHIP | 1770 | | | | | | | | |
| COLBORNE WPCP | | | | B O D: | 59.00 | 50.21 | B O D: 1.60 | 1.36 | 12 | |
| CAPACITY (MIGD): | ( .302) | ( | .187 ) | S S : | 73.00 | 62.12 | S S : 4.80 | 4.08 | 12 | |
| 1000 CUBIC METRES: | 1.373 | | .851 | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: | 3.20 | 2.72 | T.PHOS: 0.51 | 0.43 | 11 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| EFFLUENT FILTRATION | | | | | | | | | | |
| | | | | WATERCOURSE: COLBORNE CREEK | | | | | | |
| DYSART-ET-AL (HALIBURT** | | | | | | | | | | |
| 110001603 | | | | | | | | | | |
| TOWNSHIP | 875 | | | | | | | | |
| HALIBURTON WPCP | | | | B O D: | 141.00 | 32.29 | B O D: 1.30 | 0.30 | 11 | |
| CAPACITY (MIGD): | ( .210) | ( | .050 ) | S S : | 121.00 | 27.71 | S S : 3.70 | 0.85 | 11 | |
| 1000 CUBIC METRES: | .955 | | .229 | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: | 4.40 | 1.01 | T.PHOS: 0.62 | 0.14 | 11 | 3 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | | |
| | | | | WATERCOURSE: DRAG R. TO GRASS LAKE | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| EAST GWILLIMBURY (HOLL.L<br>120001620 | | | | | | | | | |
| TOWN | 2200 | | | | | | | | |
| HOLLAND LANDING LAGOON | | | | B O D: | 104.00 | 94.64 | B O D: | 9.22 | 8.39 | 2 | |
| CAPACITY (MIGD): ( .300) | | ( .200 ) | | | | | | | | | |
| 1000 CUBIC METRES: 1.364 | | .910 | | S S : | 88.00 | 80.08 | S S : | 8.49 | 7.73 | 2 | |
| CONVENTIONAL LAGOON SEASONAL | | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | T.PHOS: | 6.80 | 6.19 | T.PHOS: | 0.51 | 0.46 | 2 | |
| | | | | | | | | | | | |
| | | | | WATERCOURSE: HOLLAND RIVER | | | | | | | |
| EAST GWILLIMBURY(M.ALB** | | | | | | | | | |
| 120001853 | | | | | | | | | |
| TOWN | 1100 | | | | | | | | |
| MOUNT ALBERT WPCP | | | | B O D: | 154.00 | 39.58 | B O D: | 8.95 | 2.30 | 1 | |
| CAPACITY (MIGD): ( .150) | | ( .057 ) | | | | | | | | | |
| 1000 CUBIC METRES: .682 | | .257 | | S S : | 137.00 | 35.21 | S S : | 11.35 | 2.92 | 1 | |
| EXTENDED AERATION | | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | T.PHOS: | 7.70 | 1.98 | T.PHOS: | 0.46 | 0.12 | 1 | |
| EFFLUENT POLISHING | | | | | | | | | | | |
| | | | | WATERCOURSE: MOUNT ALBERT CREEK | | | | | | | |
| ELMVALE<br>110000169 | | | | | | | | | |
| VILLAGE | 1200 | | | | | | | | |
| ELMVALE LAGOON | | | | B O D: | 83.00 | 114.54 | B O D: | 25.70 | 35.47 | 11 | 2 |
| CAPACITY (MIGD): ( .165) | | ( .304 ) | | | | | | | | | |
| 1000 CUBIC METRES: .750 | | 1.380 | | S S : | 109.00 | 150.42 | S S : | 37.00 | 51.06 | 11 | 1 |
| CONVENTIONAL LAGOON CONTINUOUS | | | | | | | | | | | |
| | | | | T.PHOS: | 4.50 | 6.21 | T.PHOS: | 3.00 | 4.14 | 10 | |
| | | | | | | | | | | | |
| | | | | WATERCOURSE: WYE RIVER | | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | EFFLUENT ANNUAL AVERAGE | | MONTHS OF EFFLUENT DATA | MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| **ESSA (ANGUS) *MIN*** | | | | | | | | |
| 110003282 | | | | | | | | |
| TOWNSHIP | 2560 | | B O D: 152.00 | 101.38 | B O D: 8.80 | 5.87 | 12 | 1 |
| ANGUS WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .747) | | ( .147 ) | S S : 134.00 | 89.38 | S S : 12.70 | 8.47 | 12 | |
| 1000 CUBIC METRES: 3.396 | | .667 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 7.40 | 4.94 | T.PHOS: 1.18 | 0.79 | 12 | 6 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: NOTTAWASAGA RIVER | | | | | |
| **FENELON FALLS *MIN*** | | | | | | | | |
| 110001612 | | | | | | | | |
| VILLAGE | 1568 | | B O D: 99.00 | 85.73 | B O D: 8.60 | 7.45 | 12 | |
| FENELON FALLS WPCP(SUMMER POPSERVE 3136) | | | | | | | | |
| CAPACITY (MIGD): ( .220) | | ( .191 ) | S S : 111.00 | 96.13 | S S : 8.70 | 7.53 | 12 | |
| 1000 CUBIC METRES: 1.000 | | .866 | | | | | | |
| OXIDATION DITCH | | | T.PHOS: 5.60 | 4.85 | T.PHOS: 0.73 | 0.63 | 10 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: FENELON RIVER | | | | | |
| **GEORGINA (KESWICK)** | | | | | | | | |
| 120001755 | | | | | | | | |
| TOWNSHIP | 8000 | | B O D: 24.00 | | B O D: 1.40 | | 2 | |
| KESWICK WPCP | | | | | | | | |
| CAPACITY (MIGD): ( 2.655) | | ( ) | S S : 43.00 | | S S : 2.40 | | 2 | |
| 1000 CUBIC METRES: 12.070 | | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 1.70 | | T.PHOS: 0.99 | | 2 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: COOK BAY(L.SIMCOE) | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE # OF DATA | COMPLIANCE # MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GEORGINA (SUTTON)<br>110001168<br>TOWNSHIP<br>SUTTON WPCP<br>CAPACITY (MIGD): ( .450)<br>1000 CUBIC METRES: 2.046<br>EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | 2650 | ( .282 )<br>1.284 | B O D: | 137.00 | 175.91 | B O D: | 2.90 | 3.72 | 11 | | |
| | | | S S : | 222.00 | 285.05 | S S : | 3.50 | 4.49 | 11 | | |
| | | | T.PHOS: | 7.20 | 9.24 | T.PHOS: | 0.22 | 0.28 | 10 | | |
| | | | WATERCOURSE: BLACK RIVER | | | | | | | | |
| GRAVENHURST<br>120000809<br>TOWN<br>GRAVENHURST WPCP (DUAL OPERATION)<br>CAPACITY (MIGD): ( .670)<br>1000 CUBIC METRES: 3.046<br>CONVENTIONAL ACTIVATED SLUDGE<br>EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | 4274 | ( .684 )<br>3.108 | B O D: | 81.00 | 251.75 | B O D: | 3.90 | 12.12 | 10 | | |
| | | | S S : | 69.00 | 214.45 | S S : | 14.40 | 44.76 | 10 | | |
| | | | T.PHOS: | 3.50 | 10.88 | T.PHOS: | 0.40 | 1.24 | 10 | | |
| | | | WATERCOURSE: MUSKOKA LAKE | | | | | | | | |
| HALTON HILLS (ACTON) **<br>120001023<br>TOWN<br>ACTON WPCP + LAGOON<br>CAPACITY (MIGD): ( 1.000)<br>1000 CUBIC METRES: 4.546<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL - BATCH<br>EFFLUENT POLISHING | 7478 | ( .854 )<br>3.880 | B O D: | 131.00 | 508.28 | B O D: | 2.40 | 9.31 | 12 | | |
| | | | S S : | 148.00 | 574.24 | S S : | 5.60 | 21.73 | 12 | | |
| | | | T.PHOS: | 5.60 | 21.73 | T.PHOS: | 0.57 | 2.21 | 12 | 1 | |
| | | | WATERCOURSE: BLACK CREEK | | | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | | EFFLUENT ANNUAL AVERAGE | | | COMPLIANCE<br># MONTHS OF EFFLUENT DATA | <br># MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CONC. (MG/L) | LOADING KG/DAY | | CONC. (MG/L) | LOADING KG/DAY | | |
| HALTON HILLS (GEORGT.)**<br>110000294<br>TOWN<br>GEORGETOWN WPCP<br>CAPACITY (MIGD): ( 3.000)<br>1000 CUBIC METRES: 13.638<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS<br>EFFLUENT POLISHING | 20100 | ( 2.453 )<br>11.150 | B O D: | 206.00 | 2,296.90 | B O D: | 3.50 | 39.03 | 12 | |
| | | | S S : | 228.00 | 2,542.20 | S S : | 3.00 | 33.45 | 12 | |
| | | | T.PHOS: | 11.20 | 124.88 | T.PHOS: | 0.53 | 5.91 | 12 | |
| | | | WATERCOURSE: SILVER CREEK | | | | | | | |
| HASTINGS **MIN**<br>110001827<br>VILLAGE<br>HASTINGS WPCP<br>CAPACITY (MIGD): ( .233)<br>1000 CUBIC METRES: 1.059<br>OXIDATION DITCH<br>PHOSPHORUS REMOVAL-CONTINUOUS | 918 | ( .169 )<br>.767 | B O D: | 31.00 | 23.78 | B O D: | 4.90 | 3.76 | 12 | 1 |
| | | | S S : | 23.00 | 17.64 | S S : | 9.20 | 7.06 | 12 | 1 |
| | | | T.PHOS: | 5.50 | 4.22 | T.PHOS: | 0.54 | 0.41 | 12 | 1 |
| | | | WATERCOURSE: TRENT RIVER | | | | | | | |
| HAVELOCK **MIN**<br>110001765<br>VILLAGE<br>HAVELOCK LAGOON<br>CAPACITY (MIGD): ( .128)<br>1000 CUBIC METRES: .582<br>CONVENTIONAL LAGOON SEASONAL<br>PHOSPHORUS REMOVAL - BATCH | 1344 | ( .174 )<br>.791 | B O D: | 127.00 | 100.46 | B O D: | 10.00 | 7.91 | 1 | |
| | | | S S : | 142.00 | 112.32 | S S : | 15.50 | 12.26 | 1 | |
| | | | T.PHOS: | 6.50 | 5.14 | T.PHOS: | 0.71 | 0.56 | 1 | |
| | | | WATERCOURSE: PLATO CREEK | | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | EFFLUENT ANNUAL AVERAGE | | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| **HUNTSVILLE** | | | | | | | | |
| 110000347 | | | | | | | | |
| TOWN | 5856 | | B O D: 106.00 | 509.97 | B O D: 4.30 | 20.69 | 7 | |
| HUNTSVILLE MPCP | | | | | | | | |
| CAPACITY (MIGD): ( 1.000) | | ( 1.058 ) | S S : 94.00 | 452.23 | S S : 14.10 | 67.84 | 8 | 1 |
| 1000 CUBIC METRES: 4.546 | | 4.811 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 6.80 | 32.71 | T.PHOS: 1.37 | 6.59 | 8 | 3 |
| PHOSPHORUS REMOVAL-CONTIMUOUS | | | | | | | | |
| | | | WATERCOURSE: MUSKOKA RIVER | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | |
| **LAKEFIELD** | | | | | | | | |
| 110001462 | | | | | | | | |
| VILLAGE | 2300 | | B O D: 82.00 | 116.93 | B O D: 12.00 | 17.11 | 12 | |
| LAKEFIELD LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .350) | | ( .314 ) | S S : 110.00 | 156.86 | S S : 26.00 | 37.08 | 12 | 4 |
| 1000 CUBIC METRES: 1.591 | | 1.426 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 4.90 | 6.99 | T.PHOS: 0.89 | 1.27 | 10 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: OTONABEE RIVER | | | | | |
| | | | REMEDIAL MEASURE: PROCESS/EQUIPMENT IMPROVEMENTS | | | | | |
| **LINDSAY** | | | | | | | | |
| 110000383 | | | | | | | | |
| TOWN | 13950 | | B O D: 99.00 | 1,846.55 | B O D: 5.50 | 102.59 | 12 | |
| LINDSAY LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( 3.788) | | ( 4.103 ) | S S : 100.00 | 1,865.20 | S S : 7.80 | 145.49 | 12 | |
| 1000 CUBIC METRES: 17.184 | | 18.652 | | | | | | |
| CONVENTIONAL LAGOON CONTINUOUS | | | T.PHOS: 3.90 | 72.74 | T.PHOS: 0.50 | 9.33 | 12 | 1 |
| AERATED CELL | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: SCUGOG RIVER | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | EFFLUENT ANNUAL AVERAGE | | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| METRO TORONTO(HIGHLAND)<br>120000373<br>CITY<br>HIGHLAND CREEK WPCP (SCARBOROUGH)<br>CAPACITY (MIGD): ( 48.000)<br>1000 CUBIC METRES: 218.208<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 290000 | ( 35.924 )<br>163.292 | B O D: 181.00<br>S S : 205.00<br>T.PHOS: 5.40 | 29,555.85<br>33,474.86<br>881.78 | B O D: 18.80<br>S S : 16.50<br>T.PHOS: 0.76 | 3,069.89<br>2,694.32<br>124.10 | 12<br>12<br>12 | 1<br>1 |
| WATERCOURSE: HIGHLAND CREEK | | | | | | | | |
| METRO TORONTO(HUMBER)<br>120000382<br>CITY<br>HUMBER WPCP (ETOBICOKE)<br>CAPACITY (MIGD): ( 90.000)<br>1000 CUBIC METRES: 409.140<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 660000 | ( 83.184 )<br>378.108 | B O D: 264.00<br>S S : 325.00<br>T.PHOS: 8.60 | 99,820.51<br>122,885.10<br>3,327.35 | B O D: 11.50<br>S S : 18.10<br>T.PHOS: 1.07 | 4,348.24<br>6,843.75<br>404.58 | 12<br>12<br>12 | 2<br>6 |
| WATERCOURSE: LAKE ONTARIO | | | | | | | | |
| METRO TORONTO(MAIN)<br>120000391<br>CITY<br>MAIN WPCP (TORONTO)<br>CAPACITY (MIGD): (180.000)<br>1000 CUBIC METRES: 818.280<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 1200000 | ( 150.443 )<br>683.833 | B O D: 167.00<br>S S : 195.00<br>T.PHOS: 5.80 | 114,200.11<br>133,347.44<br>3,966.23 | B O D: 22.30<br>S S : 26.00<br>T.PHOS: 1.09 | 15,249.46<br>17,779.66<br>745.38 | 12<br>12<br>12 | 4<br>5<br>7 |
| WATERCOURSE: LAKE ONTARIO | | | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METRO TORONTO(N.TORONTO)<br>120000364<br>CITY<br>NORTH TORONTO WPCP (EAST YORK)<br>CAPACITY (MIGD): ( 10.000)<br>1000 CUBIC METRES: 45.460<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 55000 | ( 7.636 )<br>34.708 | | B O D: 120.00<br>S S : 154.00<br>T.PHOS: 5.00 | 4,164.96<br>5,345.03<br>173.54 | | B O D: 15.00<br>S S : 6.70<br>T.PHOS: 0.84 | 520.62<br>232.54<br>29.15 | 12<br>12<br>12 | 1<br><br>2 | |
| | | | | WATERCOURSE: DON RIVER | | | | | | | |
| MIDLAND<br>110000463<br>TOWN<br>MIDLAND WPCP<br>CAPACITY (MIGD): ( 3.000)<br>1000 CUBIC METRES: 13.638<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 12000 | ( 2.400 )<br>10.907 | | B O D: 67.00<br>S S : 131.00<br>T.PHOS: 4.40 | 730.77<br>1,428.62<br>47.99 | | B O D: 3.00<br>S S : 6.40<br>T.PHOS: 0.57 | 32.72<br>69.80<br>6.22 | 11<br>11<br>11 | | |
| | | | | WATERCOURSE: MIDLAND BAY | | | | | | | |
| MILLBROOK *MIN*<br>110002238<br>VILLAGE<br>MILLBROOK WPCP<br>CAPACITY (MIGD): ( .250)<br>1000 CUBIC METRES: 1.137<br>EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | 902 | ( .199 )<br>.905 | | B O D: 89.00<br>S S : 62.00<br>T.PHOS: 4.40 | 80.55<br>56.11<br>3.98 | | B O D: 4.40<br>S S : 7.30<br>T.PHOS: 0.26 | 3.98<br>6.61<br>0.24 | 12<br>12<br>12 | | |
| | | | | WATERCOURSE: BAXTER CREEK | | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| MILTON ** | | | | | | | | | | |
| 120001014 | | | | | | | | | | |
| TOWN | 23203 | | | B O D: 206.00 | 2,523.50 | | B O D: 2.90 | 35.53 | 12 | |
| MILTON WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 2.640) | | ( 2.695 ) | | S S : 216.00 | 2,646.00 | | S S : 2.30 | 28.18 | 12 | |
| 1000 CUBIC METRES: 12.911 | | 12.250 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 10.00 | 122.50 | | T.PHOS: 0.21 | 2.57 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | | |
| | | | | | WATERCOURSE: OAKVILLE CREEK | | | | | |
| MISSISSAUGA (CLARKSON) *MINN | | | | | | | | | | |
| 110001328 | | | | | | | | | | |
| CITY | 120000 | | | B O D: 161.00 | 11,463.52 | | B O D: 11.50 | 818.82 | 12 | |
| CLARKSON WPCP SOUTH-PEEL SYSTEM | | | | | | | | | | |
| CAPACITY (MIGD): ( 24.000) | | ( 15.664 ) | | S S : 182.00 | 12,958.76 | | S S : 9.50 | 676.42 | 12 | |
| 1000 CUBIC METRES: 109.104 | | 71.202 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 8.00 | 569.62 | | T.PHOS: 0.90 | 64.08 | 12 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | | WATERCOURSE: LAKE ONTARIO | | | | | |
| MISSISSAUGA (LAKEVIEW) *MINN | | | | | | | | | | |
| 110001284 | | | | | | | | | | |
| CITY | 370000 | | | B O D: 274.00 | 63,161.66 | | B O D: 16.50 | 3,803.53 | 12 | |
| LAKEVIEW WPCP SOUTH-PEEL SYSTEM | | | | | | | | | | |
| CAPACITY (MIGD): ( 62.500) | | ( 50.714 ) | | S S : 257.00 | 59,242.87 | | S S : 15.60 | 3,596.07 | 12 | 2 |
| 1000 CUBIC METRES: 284.125 | | 230.517 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 8.30 | 1,913.29 | | T.PHOS: 0.66 | 152.14 | 12 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | | WATERCOURSE: LAKE ONTARIO | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| **MUSKOKA LAKES (BALA) ****<br>120000792 | | | | | | | | | | |
| TOWNSHIP | 111 | | | B O D: 7.00 | 0.66 | | B O D: 8.40 | 0.79 | 7 | 6 |
| BALA WPCP<br>CAPACITY (MIGD): ( .020) | | ( .021 ) | | S S : 10.00 | 0.94 | | S S : 15.40 | 1.45 | 7 | 7 |
| 1000 CUBIC METRES: .091 | | .094 | | T.PHOS: 1.20 | 0.11 | | T.PHOS: 1.04 | 0.10 | 6 | 2 |
| COMMUNAL SEPTIC TANK<br>PHOSPHORUS REMOVAL-CONTINUOUS<br>EFFLUENT FILTRATION | | | | | | | | | | |
| | | | | WATERCOURSE: LONG LAKE | | | | | | |
| **MUSKOKA LAKES (P.CARL)**<br>110002229 | | | | | | | | | | |
| TOWNSHIP | 707 | | | B O D: 135.00 | 51.98 | | B O D: 1.70 | 0.65 | 8 | |
| PORT CARLING WPCP<br>CAPACITY (MIGD): ( .120) | | ( .085 ) | | S S : 199.00 | 76.62 | | S S : 1.70 | 0.65 | 8 | |
| 1000 CUBIC METRES: .546 | | .385 | | T.PHOS: 5.10 | 1.96 | | T.PHOS: 0.26 | 0.10 | 8 | |
| EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS<br>EFFLUENT POLISHING | | | | | | | | | | |
| | | | | WATERCOURSE: INDIAN RIVER | | | | | | |
| NEWCASTLE (GRAHAM CREEK)<br>110001569 | | | | | | | | | | |
| TOWN | 1866 | | | B O D: 110.00 | 112.42 | | B O D: 4.90 | 5.01 | 11 | |
| GRAHAM CREEK WPCP (NEWCASTLE)<br>CAPACITY (MIGD): ( .400) | | ( .225 ) | | S S : 112.00 | 114.46 | | S S : 6.30 | 6.44 | 12 | |
| 1000 CUBIC METRES: 1.818 | | 1.022 | | T.PHOS: 6.10 | 6.23 | | T.PHOS: 3.26 | 3.33 | 9 | |
| EXTENDED AERATION | | | | | | | | | | |
| | | | | WATERCOURSE: LAKE ONTARIO | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| NEWCASTLE (SOPER CR.1)<br>120000060 | | | | | | | | | | |
| TOWN | 0 | | | | | | | | | |
| SOPER CREEK 1 WPCP STANDBY (BOWMANVILLE) | | | | | | | | | | |
| CAPACITY (MIGD): ( .500) | | ( .000 ) | BOD: | 0.00 | 0.00 | BOD: | 0.00 | 0.00 | | |
| 1000 CUBIC METRES: 2.273 | | .000 | SS: | 0.00 | 0.00 | SS: | 0.00 | 0.00 | | |
| TRICKLING FILTER | | | T.PHOS: | 0.00 | 0.00 | T.PHOS: | 0.00 | 0.00 | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: SOPER CREEK | | | | | | | |
| NEWCASTLE (SOPER CR.2)<br>120000051 | | | | | | | | | | |
| TOWN | 0 | | | | | | | | | |
| SOPER CREEK 2 WPCP STANDBY (BOWMANVILLE) | | | | | | | | | | |
| CAPACITY (MIGD): ( 1.000) | | ( .000 ) | BOD: | 0.00 | 0.00 | BOD: | 0.00 | 0.00 | | |
| 1000 CUBIC METRES: 4.546 | | .000 | SS: | 0.00 | 0.00 | SS: | 0.00 | 0.00 | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: | 0.00 | 0.00 | T.PHOS: | 0.00 | 0.00 | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: SOPER CREEK | | | | | | | |
| NEWCASTLE(PORT DARLINGT)<br>120003076 | | | | | | | | | | |
| TOWN | 12831 | | | | | | | | | |
| PORT DARLINGTON WPCP | | | BOD: | 143.00 | 1,153.01 | BOD: | 13.30 | 107.24 | 11 | |
| CAPACITY (MIGD): ( 1.000) | | ( 1.774 ) | SS: | 185.00 | 1,491.66 | SS: | 14.00 | 112.88 | 12 | |
| 1000 CUBIC METRES: 4.546 | | 8.063 | T.PHOS: | 6.60 | 53.22 | T.PHOS: | 0.90 | 7.26 | 12 | 3 |
| CONVENTIONAL ACTIVATED SLUDGE | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: LAKE ONTARIO | | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NORWOOD *MIN* 110001499 | | | | | | | | | | | |
| VILLAGE | 1082 | | | | | | | | | | |
| NORWOOD WPCP | | | | B O D: | 35.00 | 19.32 | B O D: | 6.40 | 3.53 | 10 | |
| CAPACITY (MIGD): | ( .160) | ( | .121 ) | S S : | 37.00 | 20.42 | S S : | 7.70 | 4.25 | 10 | |
| 1000 CUBIC METRES: | .727 | | .552 | | | | | | | | |
| OXIDATION DITCH | | | | T.PHOS: | 2.90 | 1.60 | T.PHOS: | 0.75 | 0.41 | 10 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | WATERCOURSE: OUSE RIVER | | | | | | | |
| OAKVILLE (SE) 120000998 | | | | | | | | | | | |
| TOWN | 21900 | | | | | | | | | | |
| SOUTH EAST WPCP | | | | B O D: | 164.00 | 2,180.54 | B O D: | 2.40 | 31.91 | 12 | |
| CAPACITY (MIGD): | ( 5.000) | ( | 2.925 ) | S S : | 223.00 | 2,965.01 | S S : | 9.00 | 119.66 | 12 | 1 |
| 1000 CUBIC METRES: | 22.730 | | 13.296 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: | 8.40 | 111.69 | T.PHOS: | 0.78 | 10.37 | 12 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | WATERCOURSE: LAKE ONTARIO | | | | | | | |
| OAKVILLE (SW) 120001005 | | | | | | | | | | | |
| TOWN | 58200 | | | | | | | | | | |
| SOUTH WEST WPCP | | | | B O D: | 217.00 | 6,287.14 | B O D: | 6.40 | 185.43 | 11 | |
| CAPACITY (MIGD): | ( 10.500) | ( | 6.374 ) | S S : | 233.00 | 6,750.71 | S S : | 15.20 | 440.39 | 11 | 2 |
| 1000 CUBIC METRES: | 47.733 | | 28.973 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: | 8.50 | 246.27 | T.PHOS: | 0.91 | 26.37 | 11 | 3 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | WATERCOURSE: LAKE ONTARIO | | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER / EXISTING CAPACITY AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD) 1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | EFFLUENT ANNUAL AVERAGE | | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| OMEMEE | | | | | | | | |
| #MIN# 110001630 | | | | | | | | |
| VILLAGE | 672 | | B O D: | 185.00 | 55.32 | B O D: | 20.20 | 6.04 | 3 | |
| OMEMEE LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .135) | | ( .066 ) | S S : | 273.00 | 81.63 | S S : | 27.60 | 8.25 | 3 | 1 |
| 1000 CUBIC METRES: .614 | | .299 | | | | | | | | |
| LAGOON AND SPRAY | | | T.PHOS: | 9.80 | 2.93 | T.PHOS: | 3.50 | 1.05 | 3 | |
| | | | | | | | | | | |
| | | | WATERCOURSE: NO DISC.TO SURFACE WATER | | | | | | | |
| ORILLIA | | | | | | | | | | |
| 120000569 | | | | | | | | | | |
| CITY | 24000 | | B O D: | 130.00 | 2,499.64 | B O D: | 18.40 | 353.80 | 12 | 3 |
| ORILLIA WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 4.000) | | ( 4.230 ) | S S : | 141.00 | 2,711.15 | S S : | 19.70 | 378.79 | 12 | 3 |
| 1000 CUBIC METRES: 18.184 | | 19.228 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: | 3.10 | 59.61 | T.PHOS: | 0.57 | 10.96 | 12 | 3 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: LAKE SIMCOE | | | | | | | |
| OSHAWA (HARM.CR.1+2 EFF) | | | | | | | | | | |
| 120003254 | | | | | | | | | | |
| CITY | 0 | | B O D: | 0.00 | 0.00 | B O D: | 19.10 | 1,052.58 | 11 | 1 |
| HARMONY CREEK 1&2 COMBINED EFFLUENT | | | | | | | | | | |
| CAPACITY (MIGD): ( .000) | | ( 12.124 ) | S S : | 0.00 | 0.00 | S S : | 17.00 | 936.85 | 12 | 2 |
| 1000 CUBIC METRES: .000 | | 55.109 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: | 0.00 | 0.00 | T.PHOS: | 0.61 | 33.62 | 12 | |
| TRICKLING FILTER | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: L ONT.(COMBINED EFF.1&2) | | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT<br>ANNUAL AVERAGE | | EFFLUENT<br>ANNUAL AVERAGE | | COMPLIANCE<br>MONTHS OF DATA | MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| OSHAWA (HARMONY CR.1)<br>120000774 | | | | | | | | |
| CITY | 102938 | | B O D: 160.00 | 4,330.40 | B O D: 0.00 | 0.00 | | |
| HARMONY CR WPCP NO 1 | | | | | | | | |
| CAPACITY (MIGD): ( 7.500) | | ( 5.954 ) | S S : 198.00 | 5,358.87 | S S : 0.00 | 0.00 | | |
| 1000 CUBIC METRES: 34.095 | | 27.065 | | | | | | |
| TRICKLING FILTER | | | T.PHOS: 6.30 | 170.51 | T.PHOS: 0.00 | 0.00 | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: | | | | | |
| OSHAWA (HARMONY CR.2)<br>120001657 | | | | | | | | |
| CITY | 51469 | | B O D: 151.00 | 4,106.90 | B O D: 0.00 | 0.00 | | |
| HARMONY CR WPCP NO 2 | | | | | | | | |
| CAPACITY (MIGD): ( 7.500) | | ( 5.984 ) | S S : 182.00 | 4,950.04 | S S : 0.00 | 0.00 | | |
| 1000 CUBIC METRES: 34.095 | | 27.198 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 6.50 | 176.79 | T.PHOS: 0.00 | 0.00 | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: | | | | | |
| PENETANGUISHENE<br>120000541 | | | | | | | | |
| TOWN | 4300 | | B O D: 80.00 | 244.16 | B O D: 9.50 | 28.99 | 11 | |
| PENETANGUISHENE WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .660) | | ( .671 ) | S S : 143.00 | 436.44 | S S : 7.80 | 23.81 | 11 | |
| 1000 CUBIC METRES: 3.000 | | 3.052 | | | | | | |
| CONTACT STABILIZATION | | | T.PHOS: 4.20 | 12.82 | T.PHOS: 0.40 | 1.22 | 11 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: PENETANG BAY | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| **PETERBOROUGH** | | | | | | | | | | |
| 120000676 | | | | | | | | | | |
| CITY | 61063 | | | B O D: 74.00 | 4,177.45 | | B O D: 12.60 | 711.30 | 12 | |
| PETERBOROUGH WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 15.000) | | ( 12.419 ) | | S S : 66.00 | 3,725.83 | | S S : 6.90 | 389.52 | 12 | |
| 1000 CUBIC METRES: 68.190 | | 56.452 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 3.00 | 169.36 | | T.PHOS: 0.81 | 45.73 | 11 | 3 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | | WATERCOURSE: OTONABEE RIVER | | | | | |
| **PICKERING (DUFFIN CREEK)** | | | | | | | | | | |
| 120001915 | | | | | | | | | | |
| TOWN | 64386 | | | B O D: 144.00 | 21,600.43 | | B O D: 14.20 | 2,130.04 | 11 | |
| DUFFIN CREEK WPCP (YORK-DURHAM) | | | | | | | | | | |
| CAPACITY (MIGD): ( 40.000) | | ( 33.001 ) | | S S : 251.00 | 37,650.75 | | S S : 15.50 | 2,325.05 | 12 | |
| 1000 CUBIC METRES: 181.840 | | 150.003 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 6.10 | 915.02 | | T.PHOS: 1.05 | 157.50 | 12 | 5 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | | WATERCOURSE: LAKE ONTARIO | | | | | |
| **PORT HOPE** | | | | | | | | | | |
| 120000079 | | | | | | | | | | |
| TOWN | 10274 | | | B O D: 108.00 | 1,037.56 | | B O D: 5.70 | 54.76 | 12 | |
| PORT HOPE WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 2.000) | | ( 2.114 ) | | S S : 57.00 | 547.60 | | S S : 5.30 | 50.92 | 12 | |
| 1000 CUBIC METRES: 9.092 | | 9.607 | | | | | | | | |
| HIGH RATE | | | | T.PHOS: 1.90 | 18.25 | | T.PHOS: 0.56 | 5.38 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | | WATERCOURSE: LAKE ONTARIO | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| PORT MCNICOLL *MIN* 110001417 | | | | | | | | | | |
| VILLAGE | 1400 | | | B O D: | 84.00 | 98.11 | B O D: | 19.00 | 22.19 | 12 | 4 |
| PORT MCNICOLL WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .230) | ( | .257 ) | S S : | 85.00 | 99.28 | S S : | 20.10 | 23.48 | 12 | 4 |
| 1000 CUBIC METRES: | 1.046 | | 1.168 | | | | | | | | |
| CONTACT STABILIZATION | | | | T.PHOS: | 3.90 | 4.56 | T.PHOS: | 0.89 | 1.04 | 12 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | WATERCOURSE: GEORGIAN BAY | | | | | | | |
| | | | | REMEDIAL MEASURE: COLLECTION SYSTEM UNDER STUDY | | | | | | | |
| SCUGOG (NONQUON RIVER) 110001257 | | | | | | | | | | |
| TOWNSHIP | 5215 | | | B O D: | 168.00 | 397.66 | B O D: | 6.00 | 14.20 | 4 | |
| NONQUON RIVER LAGOON (PORT PERRY) | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .700) | ( | .521 ) | S S : | 154.00 | 364.52 | S S : | 10.10 | 23.91 | 5 | |
| 1000 CUBIC METRES: | 3.182 | | 2.367 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: | 6.90 | 16.33 | T.PHOS: | 0.36 | 0.85 | 5 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| EFFLUENT CHLORINATION | | | | | | | | | | | |
| | | | | WATERCOURSE: LAKE SCUGOG | | | | | | | |
| SMITH (WOODLAND ACRES) *MIN* 110002381 | | | | | | | | | | |
| TOWNSHIP | 430 | | | B O D: | 37.00 | 12.17 | B O D: | 1.70 | 0.56 | 12 | |
| WOODLAND ACRES WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .080) | ( | .072 ) | S S : | 47.00 | 15.46 | S S : | 4.00 | 1.32 | 12 | |
| 1000 CUBIC METRES: | .364 | | .329 | | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: | 2.20 | 0.72 | T.PHOS: | 1.49 | 0.49 | 12 | |
| | | | | WATERCOURSE: OTONABEE R. | | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| STAYNER<br>110000695<br>TOWN<br>STAYNER LAGOON<br>CAPACITY (MIGD): ( .230)<br>1000 CUBIC METRES: 1.046<br>AERATED CELL PLUS LAGOON<br>SEASONAL DISCHARGE<br>PHOSPHORUS REMOVAL - BATCH | 2400 | ( .283 )<br>1.288 | B O D: | 964.00 | 1,241.63 | 31.90 | 41.09 | 4 | 2 |
| | | | S S : | 323.00 | 416.02 | 35.10 | 45.21 | 4 | 1 |
| | | | T.PHOS: | 8.90 | 11.46 | 0.78 | 1.00 | 4 | 1 |
| | | | WATERCOURSE: LAMONT CREEK | | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | |
| TOTTENHAM<br>120000523<br>VILLAGE<br>TOTTENHAM LAGOON<br>CAPACITY (MIGD): ( .190)<br>1000 CUBIC METRES: .864<br>CONVENTIONAL LAGOON SEASONAL<br>PHOSPHORUS REMOVAL - BATCH | 3000 | ( .323 )<br>1.466 | B O D: | 101.00 | 148.07 | 0.00 | 0.00 | | |
| | | | S S : | 126.00 | 184.72 | 0.00 | 0.00 | | |
| | | | T.PHOS: | 5.80 | 8.50 | 0.00 | 0.00 | | |
| | | | WATERCOURSE: BEETON CREEK | | | | | | |
| UXBRIDGE ##<br>120000756<br>TOWNSHIP<br>UXBRIDGE BROOK WPCP<br>CAPACITY (MIGD): ( .800)<br>1000 CUBIC METRES: 3.637<br>EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS<br>EFFLUENT POLISHING | 4550 | ( .350 )<br>1.593 | B O D: | 152.00 | 242.14 | 8.40 | 13.38 | 12 | |
| | | | S S : | 130.00 | 207.09 | 5.20 | 8.28 | 12 | |
| | | | T.PHOS: | 5.40 | 8.60 | 0.17 | 0.27 | 12 | |
| | | | WATERCOURSE: UXBRIDGE BROOK | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| VAUGHAN (KLEINBURG)<br>120000417 | | | | | | | | | |
| TOWN | 900 | | | B O D: 159.00 | 31.32 | B O D: 4.70 | 0.93 | 11 | |
| KLEINBURG WPCP | | | | | | | | | |
| CAPACITY (MIGD): ( .050) | | ( .043 ) | | S S : 208.00 | 40.98 | S S : 11.80 | 2.32 | 11 | |
| 1000 CUBIC METRES: .227 | | .197 | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 7.80 | 1.54 | T.PHOS: 4.48 | 0.88 | 11 | |
| | | | | | WATERCOURSE: HUMBER RIVER | | | | |
| VICTORIA HARBOUR ## #MIN#<br>120003227 | | | | | | | | | |
| VILLAGE | 1455 | | | B O D: 72.00 | 31.97 | B O D: 2.20 | 0.98 | 12 | |
| VICTORIA HARBOUR WPCP | | | | | | | | | |
| CAPACITY (MIGD): ( .520) | | ( .098 ) | | S S : 78.00 | 34.63 | S S : 1.90 | 0.84 | 12 | |
| 1000 CUBIC METRES: 2.364 | | .444 | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 3.40 | 1.51 | T.PHOS: 0.24 | 0.11 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | |
| | | | | | WATERCOURSE: GEORGIAN BAY | | | | |
| MASAGA BEACH ## #MIN#<br>120001862 | | | | | | NO 1985 DISCHARGE | | | |
| TOWN | 3090 | | | B O D: 81.00 | 82.38 | B O D: 0.00 | 0.00 | | |
| MASAGA BEACH WPCP (SUM.POP.SERV.73000) | | | | | | | | | |
| CAPACITY (MIGD): ( 1.270) | | ( .224 ) | | S S : 67.00 | 68.14 | S S : 0.00 | 0.00 | | |
| 1000 CUBIC METRES: 5.773 | | 1.017 | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 3.90 | 3.97 | T.PHOS: 0.00 | 0.00 | | |
| EFFLUENT POLISHING | | | | | | | | | |
| EXFILTRATION | | | | | | | | | |
| | | | | | WATERCOURSE: NO DISC.TO SURFACE WATER | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT | ANNUAL AVERAGE CONC. (MG/L) | ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT | ANNUAL AVERAGE CONC. (MG/L) | ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE: MONTHS OF EFFLUENT DATA | COMPLIANCE: MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WHITBY (CORBETT CREEK)<br>120000738<br>TOWN<br>CORBETT CREEK WPCP<br>CAPACITY (MIGD): ( 8.000)<br>1000 CUBIC METRES: 36.368<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 26100 | ( 2.967 )<br>13.487 | B O D: | 158.00 | 2,130.95 | B O D: | 9.90 | 133.52 | 12 | | 1 |
| | | | S S : | 170.00 | 2,292.79 | S S : | 13.00 | 175.33 | 12 | | |
| | | | T.PHOS: | 4.80 | 64.74 | T.PHOS: | 0.58 | 7.82 | 12 | | |
| | | | WATERCOURSE: LAKE ONTARIO | | | | | | | | |
| WHITBY (PRINGLE CREEK 1)<br>120000747<br>TOWN<br>PRINGLE CREEK WPCP NO 1<br>CAPACITY (MIGD): ( 1.250)<br>1000 CUBIC METRES: 5.683<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 10925 | ( 1.209 )<br>5.494 | B O D: | 105.00 | 576.87 | B O D: | 19.20 | 105.48 | 12 | 2 | 2 |
| | | | S S : | 179.00 | 983.43 | S S : | 14.50 | 79.66 | 12 | 2 | |
| | | | T.PHOS: | 2.70 | 14.83 | T.PHOS: | 0.70 | 3.85 | 12 | 2 | |
| | | | WATERCOURSE: PRINGLE CREEK | | | | | | | | |
| WHITBY (PRINGLE CREEK 2)<br>120003101<br>TOWN<br>PRINGLE CREEK WPCP NO 2<br>CAPACITY (MIGD): ( 2.000)<br>1000 CUBIC METRES: 9.092<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 10925 | ( 1.439 )<br>6.539 | B O D: | 105.00 | 686.60 | B O D: | 19.50 | 127.51 | 12 | 3 | 3 |
| | | | S S : | 179.00 | 1,170.48 | S S : | 14.50 | 94.82 | 12 | 3 | |
| | | | T.PHOS: | 2.70 | 17.66 | T.PHOS: | 0.93 | 6.08 | 12 | 5 | |
| | | | WATERCOURSE: PRINGLE CREEK | | | | | | | | |

CENTRAL - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| WHITCHURCH(STOUFFVILLE** 120000408 | | | | | | | | | | |
| TOWN | 5500 | | | | | | | | | |
| STOUFFVILLE WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( .850) | ( .701 ) | | | | | | | | |
| 1000 CUBIC METRES: | 3.864 | 3.185 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | | |
| | | | BOD: | 138.00 | 439.53 | BOD: | 2.50 | 7.96 | 4 | |
| | | | SS: | 122.00 | 388.57 | SS: | 7.40 | 23.57 | 4 | |
| | | | T.PHOS: | 6.00 | 19.11 | T.PHOS: | 0.51 | 1.62 | 4 | |
| | | | | | WATERCOURSE: DUFFIN CREEK | | | | | |

# CENTRAL REGION

## WASTEWATER TREATMENT

# REGIONAL MUNICIPALITIES

| REGIONAL MUNICIPALITIES | CAPACITY $1000m^3$ | CAPACITY MIGD |
|---|---|---|
| DURHAM | 324.6 | 71.4 |
| HALTON | 194.8 | 42.8 |
| METROPOLITAN TORONTO | 1491.0 | 328.0 |
| PEEL | 397.8 | 87.5 |
| YORK | 8.1 | 1.8 |
| DISTRICT MUNICIPALITY OF MUSKOKA | 11.4 | 2.5 |
| TOTAL | 2427.7 | 534.9 |

REGIONAL MUNICIPALITY OF DURHAM

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE | CAPACITY MIGD (1000M3) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| BROCK (BEAVERTON R.2)<br>TOWNSHIP<br>BEAVERTON RIVER 2 LAGOON (CANNINGTON)<br>110001248 | CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL-CONTINUOUS | BEAVERTON RIVER | .203 ( .923) | 1835 | MUNICIPALITY |
| BROCK (BEAVERTON R.1) **<br>TOWNSHIP<br>BEAVERTON RIVER 1 LAGOON (SUNDERLAND)<br>120003496 | CONVENTIONAL LAGOON CONTINUOUS EXFILTRATION LAGOON | NO DISC.TO SURFACE WATER | .167 ( .759) | 875 | MUNICIPALITY |
| BROCK (LAKE SIMCOE)<br>TOWNSHIP<br>LAKE SIMCOE LAGOON (BEAVERTON)<br>110000908 | CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL-CONTINUOUS | LAKE SIMCOE | .382 ( 1.737) | 2570 | MUNICIPALITY |
| NEWCASTLE (GRAHAM CREEK)<br>TOWN<br>GRAHAM CREEK WPCP (NEWCASTLE)<br>110001569 | EXTENDED AERATION | LAKE ONTARIO | .400 ( 1.818) | 1866 | MUNICIPALITY |
| NEWCASTLE (SOPER CR.1)<br>TOWN<br>SOPER CREEK 1 WPCP STANDBY (BOWMANVILLE)<br>120000060 | TRICKLING FILTER PHOSPHORUS REMOVAL-CONTINUOUS | SOPER CREEK | .500 ( 2.273) | 0 | MUNICIPALITY |
| NEWCASTLE (SOPER CR.2)<br>TOWN<br>SOPER CREEK 2 WPCP STANDBY (BOWMANVILLE)<br>120000051 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS | SOPER CREEK | 1.000 ( 4.546) | 0 | MUNICIPALITY |
| NEWCASTLE(PORT DARLINGT)<br>TOWN<br>PORT DARLINGTON WPCP<br>120003076 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS | LAKE ONTARIO | 1.000 ( 4.546) | 12831 | MUNICIPALITY |
| OSHAWA (HARMONY CR.1)<br>CITY<br>HARMONY CR WPCP NO 1<br>120000774 | TRICKLING FILTER PHOSPHORUS REMOVAL-CONTINUOUS | | 7.500 ( 34.095) | 102938 | MUNICIPALITY |
| OSHAWA (HARMONY CR.2)<br>CITY<br>HARMONY CR WPCP NO 2<br>120001657 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS | | 7.500 ( 34.095) | 51469 | MUNICIPALITY |

REGIONAL MUNICIPALITY OF DURHAM

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD (1000M3) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| PICKERING (DUFFIN CREEK)<br>TOWN<br>DUFFIN CREEK WPCP (YORK-DURHAM)<br>120001915 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | LAKE ONTARIO | 40.000<br>( 181.840) | 64386 | MUNICIPALITY |
| SCUGOG (NONQUON RIVER)<br>TOWNSHIP<br>NONQUON RIVER LAGOON (PORT PERRY)<br>110001257 | CONVENTIONAL LAGOON SEASONAL<br>PHOSPHORUS REMOVAL-CONTINUOUS<br>EFFLUENT CHLORINATION | LAKE SCUGOG | .700<br>( 3.182) | 5215 | MUNICIPALITY |
| UXBRIDGE **<br>TOWNSHIP<br>UXBRIDGE BROOK WPCP<br>120000756 | EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS<br>EFFLUENT POLISHING | UXBRIDGE BROOK | .800<br>( 3.637) | 4550 | MUNICIPALITY |
| WHITBY (CORBETT CREEK)<br>TOWN<br>CORBETT CREEK WPCP<br>120000738 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | LAKE ONTARIO | 8.000<br>( 36.368) | 26100 | MUNICIPALITY |
| WHITBY (PRINGLE CREEK 1)<br>TOWN<br>PRINGLE CREEK WPCP NO 1<br>120000747 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | PRINGLE CREEK | 1.250<br>( 5.683) | 10925 | MUNICIPALITY |
| WHITBY (PRINGLE CREEK 2)<br>TOWN<br>PRINGLE CREEK WPCP NO 2<br>120003101 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | PRINGLE CREEK | 2.000<br>( 9.092) | 10925 | MUNICIPALITY |
| | | TOTAL CAPACITY: | 71.402<br>( 324.593) | | |

REGIONAL MUNICIPALITY OF HALTON

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD (1000M3) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| BURLINGTON (SKYWAY) CITY SKYWAY WPCP 110000070 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS | HAMILTON HARBOUR | 20.500 ( 93.193) | 120100 | MUNICIPALITY |
| HALTON HILLS (ACTON) ** TOWN ACTON WPCP + LAGOON 120001023 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL - BATCH EFFLUENT POLISHING | BLACK CREEK | 1.000 ( 4.546) | 7478 | MUNICIPALITY |
| HALTON HILLS (GEORGT.)** TOWN GEORGETOWN WPCP 110000294 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS EFFLUENT POLISHING | SILVER CREEK | 3.000 ( 13.638) | 20100 | MUNICIPALITY |
| MILTON ** TOWN MILTON WPCP 120001014 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS EFFLUENT POLISHING | OAKVILLE CREEK | 2.840 ( 12.911) | 23203 | MUNICIPALITY |
| OAKVILLE (SE) TOWN SOUTH EAST WPCP 120000998 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS | LAKE ONTARIO | 5.000 ( 22.730) | 21900 | MUNICIPALITY |
| OAKVILLE (SW) TOWN SOUTH WEST WPCP 120001005 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS | LAKE ONTARIO | 10.500 ( 47.733) | 58200 | MUNICIPALITY |
| | | TOTAL CAPACITY | 42.840 ( 194.751) | | |

METROPOLITAN TORONTO

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD ($10^3$ M) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| METRO TORONTO(HIGHLAND)<br>CITY<br>HIGHLAND CREEK WPCP (SCARBOROUGH)<br>120000373 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | HIGHLAND CREEK | 48.000<br>( 218.208) | 290000 | MUNICIPALITY |
| METRO TORONTO(HUMBER)<br>CITY<br>HUMBER WPCP (ETOBICOKE)<br>120000382 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | LAKE ONTARIO | 90.000<br>( 409.140) | 660000 | MUNICIPALITY |
| METRO TORONTO(MAIN)<br>CITY<br>MAIN WPCP (TORONTO)<br>120000391 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | LAKE ONTARIO | 180.000<br>( 818.280) | 1200000 | MUNICIPALITY |
| METRO TORONTO(N.TORONTO)<br>CITY<br>NORTH TORONTO WPCP (EAST YORK)<br>120000364 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | DON RIVER | 10.000<br>( 45.460) | 55000 | MUNICIPALITY |
| | | TOTAL CAPACITY | 328.000<br>(1,491.088) | | |

REGIONAL MUNICIPALITY OF PEEL

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD (1000M3) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| CALEDON (BOLTON) ** TOWN BOLTON WPCP PHASED OUT OCT 1985 120000694 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS EFFLUENT POLISHING | HUMBER RIVER | 1.000 ( 4.546) | 7939 | MUNICIPALITY |
| MISSISSAUGA (CLARKSON) CITY CLARKSON WPCP SOUTH-PEEL SYSTEM 110001328 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS | LAKE ONTARIO | 24.000 ( 109.104) | 120000 | MINISTRY |
| MISSISSAUGA (LAKEVIEW) CITY LAKEVIEW WPCP SOUTH-PEEL SYSTEM 110001284 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS | LAKE ONTARIO | 62.500 ( 284.125) | 370000 | MINISTRY |
| | | TOTAL CAPACITY | 87.500 ( 397.775) | | |

REGIONAL MUNICIPALITY OF YORK

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD (1000M3) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| EAST GWILLIMBURY (HOLL.L<br>TOWN<br>HOLLAND LANDING LAGOON<br>120001620 | CONVENTIONAL LAGOON SEASONAL<br>PHOSPHORUS REMOVAL-CONTINUOUS | HOLLAND RIVER | .300<br>( 1.364) | 2200 | MUNICIPALITY |
| EAST GWILLIMBURY(M.ALB**<br>TOWN<br>MOUNT ALBERT WPCP<br>120001853 | EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS<br>EFFLUENT POLISHING | MOUNT ALBERT CREEK | .150<br>( .682) | 1100 | MUNICIPALITY |
| GEORGINA (KESWICK)<br>TOWNSHIP<br>KESWICK WPCP<br>120001755 | EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | COOK BAY(L.SIMCOE) | 2.655<br>( 12.070) | 8000 | MUNICIPALITY |
| GEORGINA (SUTTON)<br>TOWNSHIP<br>SUTTON WPCP<br>110001168 | EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | BLACK RIVER | .450<br>( 2.046) | 2650 | MUNICIPALITY |
| VAUGHAN (KLEINBURG)<br>TOWN<br>KLEINBURG WPCP<br>120000417 | EXTENDED AERATION | HUMBER RIVER | .050<br>( .227) | 900 | MUNICIPALITY |
| WHITCHURCH(STOUFFVILLE**<br>TOWN<br>STOUFFVILLE WPCP<br>120000408 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS<br>EFFLUENT POLISHING | DUFFIN CREEK | .850<br>( 3.864) | 5500 | MUNICIPALITY |
| | | TOTAL CAPACITY | 4.455<br>( 20.252) | | |

REGIONAL MUNICIPALITY OF MUSKOKA

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD ($10^3$ M) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| BRACEBRIDGE ** TOWN BRACEBRIDGE WPCP 110000034 | EXTENDED AERATION PHOSPHORUS REMOVAL-CONTINUOUS EFFLUENT POLISHING | MUSKOKA RIVER | .702 ( 3.191) | 5765 | MUNICIPALITY |
| GRAVENHURST TOWN GRAVENHURST WPCP (DUAL OPERATION) 120000809 | CONVENTIONAL ACTIVATED SLUDGE EXTENDED AERATION PHOSPHORUS REMOVAL-CONTINUOUS | MUSKOKA LAKE | .670 ( 3.046) | 4274 | MUNICIPALITY |
| HUNTSVILLE TOWN HUNTSVILLE WPCP 110000347 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS | MUSKOKA RIVER | 1.000 ( 4.546) | 5856 | MUNICIPALITY |
| MUSKOKA LAKES (BALA) ** TOWNSHIP BALA WPCP 120000792 | COMMUNAL SEPTIC TANK PHOSPHORUS REMOVAL-CONTINUOUS EFFLUENT FILTRATION | LONG LAKE | .020 ( .091) | 111 | MUNICIPALITY |
| MUSKOKA LAKES (P.CARL)** TOWNSHIP PORT CARLING WPCP 110002229 | EXTENDED AERATION PHOSPHORUS REMOVAL-CONTINUOUS EFFLUENT POLISHING | INDIAN RIVER | .120 ( .546) | 707 | MUNICIPALITY |
| | | TOTAL CAPACITY | 2.512 ( 11.420) | | |

CENTRAL REGION

# AREA WASTEWATER TREATMENT SYSTEMS

| TOTAL AREA WASTEWATER TREATMENT SYSTEMS | TOTAL CAPACITY | |
|---|---|---|
| | $1000m^3$ | MIGD |
| THREE . . . . . | 2066.9 | 454.5 |

**SYSTEM:** **METRO TORONTO POLLUTION CONTROL SYSTEM**

Number of Plants: Four
Operated by: Metro Toronto Department of Works

Number of Municipalities Served: Eight

| PLANT LOCATION | TREATMENT | CAPACITY | MUNICIPALITIES SERVED | WATERCOURSE |
|---|---|---|---|---|
| East York Borough<br>- North Toronto WPCP<br>120000391 | Conv. Act. Sludge<br>Phosphorus Removal | 10.0 MIGD<br>(45.46 1000m³/d) | North York City<br>Toronto City<br>East York Borough | Don River |
| ETOBICOKE CITY<br>- Humber WPCP<br>120000382 | Conv. Act. Sludge<br>Phosphorus Removal | 90.0 MIGD<br>(409.1 1000m³/d) | North York City<br>Etobicoke City<br>York City<br>Vaughan Town | Lake Ontario |
| SCARBOROUGH CITY<br>- Highland Creek WPCP<br>120000373 | Conv. Act. Sludge<br>Phosphorus Removal | 48.0 MIGD<br>(218.21 1000m³/d) | Scarborough City<br>Markham Town | Highland Creek |
| TORONTO CITY<br>- Main WPCP<br>120000391 | Conv. Act. Sludge<br>Phosphorus Removal | 180.0 MIGD<br>(818.3 1000m³/d) | North York City<br>Toronto City<br>East York Borough<br>Scarborough City<br>Markham Town | Lake Ontario |

**SYSTEM: SOUTH PEEL POLLUTION CONTROL SYSTEM**

Number of Plants: Two
Operated by: Ministry of the Environment

Number of Municipalities Served: Three

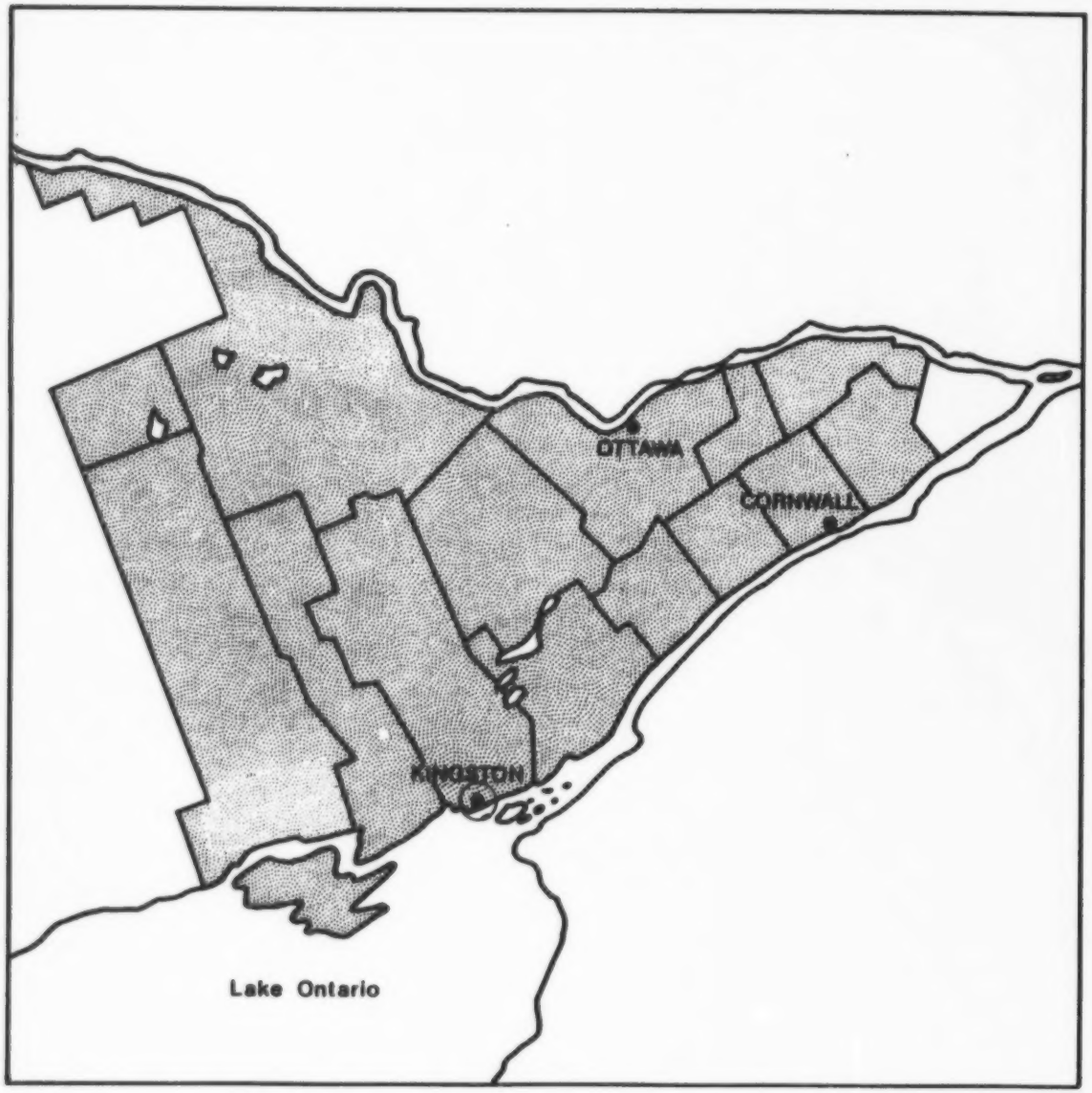
| PLANT LOCATION | TREATMENT | CAPACITY | MUNICIPALITIES SERVED | SOURCE |
|---|---|---|---|---|
| MISSISSAUGA<br>- Clarkson WPCP<br>110001328 | Conv. Act. Sludge<br>Phosphorus Removal | 24.0 MIGD<br>(109.1 1000m³/d) | Brampton City<br>Mississauga City | Lake Ontario |
| MISSISSAUGA<br>- Lakeview WPCP<br>110001284 | Conv. Act. Sludge<br>Phosphorus Removal | 62.5 MIGD<br>(285.0 1000m³/d) | Brampton City<br>Mississauga City<br>Etobicoke Borough<br>Caledon Town | |

**SYSTEM: YORK/DURHAM POLLUTION CONTROL SYSTEM**

Number of Plants: One
Operated by: Regional Municipality of Durham

Number of Municipalities Served: Seven

| PLANT LOCATION | TREATMENT | CAPACITY | MUNICIPALITIES SERVED | SOURCE |
|---|---|---|---|---|
| PICKERING TOWN<br>- York-Durham WPCP<br>120001915 | Conv. Act. Sludge<br>Phosphorus Removal | 40.0 MIGD<br>(181.8 1000m³/d) | Ajax Town<br>Aurora Town<br>Pickering Town<br>Markham Town<br>Newmarket Town<br>Richmond Hill Town<br>Vaughan Town | Lake Ontario |


OTTAWA
CORNWALL
KINGSTON
Lake Ontario

# Southeastern Region

Ministry of the Environment

Ontario

**REGIONAL OFFICE**

Kingston
133 Dalton Street
K7L 4X6
613 549-4000

**DISTRICT OFFICES**

Cornwall
4 Montreal Rd.
K6H 1B1
613 933-7402

Kingston
133 Dalton St.
K7L 4X6
613 549-4000

Ottawa
2378 Holly Lane
K1V 7P1
613 521-3450

**SUB-OFFICE**

Belleville
15 Victoria Ave.
K8N 1Z5
613 962-9208

Pembroke
1000 MacKay St.
K8B 1A3
613 732-3643

## SOUTHEASTERN REGION SUMMARY

| TREATMENT TYPE | NUMBER | | | ** CAPACITY MIGD ** ($1000M^3$) | | |
|---|---|---|---|---|---|---|
| | MINISTRY | MUNICIPAL | TOTAL | MINISTRY | MUNICIPAL | TOTAL |
| COMMUNAL SEPTIC TANK | 0 | 1 | 1 | .000 | .008 | .008 |
| | | | | | | ( .036) |
| PRIMARY | 3 | 12 | 15 | 10.500 | 110.451 | 120.951 |
| | | | | | | ( 549.843) |
| CONVENTIONAL ACTIVATED SLUDGE | 4 | 3 | 7 | 21.125 | 8.800 | 29.925 |
| | | | | | | ( 136.039) |
| MODIFIED ACTIVATED SLUDGE | 1 | 0 | 1 | 2.700 | .000 | 2.700 |
| | | | | | | ( 12.274) |
| CONTACT STABILIZATION | 1 | 1 | 2 | .300 | 1.000 | 1.300 |
| | | | | | | ( 5.910) |
| EXTENDED AERATION | 10 | 5 | 15 | 1.683 | 1.146 | 2.829 |
| | | | | | | ( 12.861) |
| HIGH RATE | 1 | 0 | 1 | 1.200 | .000 | 1.200 |
| | | | | | | ( 5.455) |
| CONVENTIONAL LAGOON ANNUAL | 2 | 0 | 2 | .364 | .000 | .364 |
| | | | | | | ( 1.655) |
| CONVENTIONAL LAGOON CONTINUOUS | 0 | 1 | 1 | .000 | 1.300 | 1.300 |
| | | | | | | ( 5.910) |
| CONVENTIONAL LAGOON SEASONAL | 12 | 3 | 15 | 2.757 | 1.120 | 3.877 |
| | | | | | | ( 17.625) |
| LAGOON AND SPRAY | 1 | 0 | 1 | .074 | .000 | .074 |
| | | | | | | ( .336) |
| AERATED CELL PLUS LAGOON | 3 | 0 | 3 | 3.435 | .000 | 3.435 |
| | | | | | | ( 15.616) |
| **** TOTALS **** | 38 | 26 | 64 | 44.138 | 123.825 | 167.963 |
| | | | | ( 200.651) | ( 562.908) | ( 763.560) |

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$ :THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MIGD = 4.546 $1000M^3$

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| ALEXANDRIA #MIN# 110000846 | | | | | | | | | |
| TOWN | 3616 | | | | | | | | |
| ALEXANDRIA LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( 1.500) | ( 1.217 ) | | | | | | | |
| 1000 CUBIC METRES: | 6.819 | 5.534 | | | | | | | |
| AERATED CELL PLUS LAGOON | | | | | | | | | |
| CONTINUOUS DISCHARGE | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| | | | B O D: | 128.00 | 708.35 | 17.80 | 98.51 | 10 | 1 |
| | | | S S : | 110.00 | 608.74 | 32.70 | 180.96 | 10 | 4 |
| | | | T.PHOS: | 3.10 | 17.16 | 0.75 | 4.15 | 12 | 2 |
| | | | WATERCOURSE: DELISLE R | | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | |
| ALFRED #MIN# 110001836 | | | | | | | | | |
| VILLAGE | 1055 | | | | | | | | |
| ALFRED LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .157) | ( .106 ) | | | | | | | |
| 1000 CUBIC METRES: | .714 | .484 | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | | | | | | |
| | | | B O D: | 164.00 | 79.38 | 9.30 | 4.50 | 1 | |
| | | | S S : | 224.00 | 108.42 | 22.00 | 10.65 | 1 | |
| | | | T.PHOS: | 9.60 | 4.65 | 3.00 | 1.45 | 1 | |
| | | | WATERCOURSE: RUISSEAU DES ATOCAS | | | | | | |
| ALMONTE #MIN# 110000873 | | | | | | | | | |
| TOWN | 4003 | | | | | | | | |
| ALMONTE LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( 1.200) | ( .477 ) | | | | | | | |
| 1000 CUBIC METRES: | 5.455 | 2.169 | | | | | | | |
| AERATED CELL PLUS LAGOON | | | | | | | | | |
| SEASONAL DISCHARGE | | | | | | | | | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | |
| | | | B O D: | 180.00 | 390.42 | 10.70 | 23.21 | 4 | |
| | | | S S : | 233.00 | 505.38 | 25.50 | 55.31 | 4 | 3 |
| | | | T.PHOS: | 7.40 | 16.05 | 1.32 | 2.86 | 4 | 3 |
| | | | WATERCOURSE: MISSISSIPPI RIVER | | | | | | |
| | | | REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | | |

SOUTHEASTERN - REGION

1965 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| ARNPRIOR | | | | | | | | | | |
| 120000621 | | | | | | | | | | |
| TOWN | 5800 | | | B O D: 151.00 | 813.89 | B O D: | 90.70 | 488.67 | 9 | 2 |
| ARNPRIOR WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( 1.500) | ( | 1.186 ) | S S : 130.00 | 700.70 | S S : | 37.60 | 202.66 | 9 | 8 |
| 1000 CUBIC METRES: | 6.819 | | 5.390 | | | | | | | |
| PRIMARY | | | | T.PHOS: 4.00 | 21.56 | T.PHOS: | 1.17 | 6.31 | 9 | 6 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | WATERCOURSE: MADAWASKA RIVER | | | | | | |
| | | | | REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | | |
| BANCROFT | | | | | | | | | | |
| 110001239 | | | | | | | | | | |
| VILLAGE | 2095 | | | B O D: 89.00 | 101.19 | B O D: | 5.80 | 4.32 | 11 | |
| BANCROFT WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( .400) | ( | .250 ) | S S : 117.00 | 133.03 | S S : | 5.50 | 6.25 | 12 | |
| 1000 CUBIC METRES: | 1.818 | | 1.137 | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 4.80 | 5.46 | T.PHOS: | 2.70 | 3.07 | 11 | |
| | | | | WATERCOURSE: YORK RIVER | | | | | | |
| BARRY'S BAY | *MIN* | | | | | | | | | |
| 110001654 | | | | | | | | | | |
| VILLAGE | 1413 | | | B O D: 196.00 | 79.38 | B O D: | 4.20 | 1.70 | 12 | |
| BARRY'S BAY WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( .273) | ( | .089 ) | S S : 265.00 | 107.33 | S S : | 11.60 | 4.78 | 12 | |
| 1000 CUBIC METRES: | 1.241 | | .405 | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 9.50 | 3.85 | T.PHOS: | 0.52 | 0.21 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | WATERCOURSE: KAMANISKEG LAKE | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | CONC. (MG/L) | INFLUENT LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE | CONC. (MG/L) | EFFLUENT LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| BATH<br>120000177 | | | | | | | | | | |
| VILLAGE | 1500 | | B O D: | 281.00 | 326.52 | B O D: | 6.30 | 7.32 | 12 | |
| BATH WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( .256) | ( .256 ) | S S : | 226.00 | 262.61 | S S : | 18.40 | 21.38 | 12 | 3 |
| 1000 CUBIC METRES: | 1.164 | 1.162 | | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: | 15.20 | 17.66 | T.PHOS: | 2.72 | 3.16 | 12 | |
| | | | WATERCOURSE: LAKE ONTARIO | | | | | | | |
| BELLEVILLE *MIN*<br>110000016 | | | | | | | | | | |
| CITY | 35351 | | B O D: | 149.00 | 5,963.13 | B O D: | 22.50 | 900.47 | 12 | 4 |
| BELLEVILLE WPCP (163500 M3/D.PRIMARY) | | | | | | | | | | |
| CAPACITY (MIGD): | ( 12.000) | ( 8.805 ) | S S : | 104.00 | 4,162.18 | S S : | 12.60 | 504.26 | 12 | 5 |
| 1000 CUBIC METRES: | 54.552 | 40.021 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: | 3.70 | 148.08 | T.PHOS: | 0.47 | 18.81 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: BAY OF QUINTE | | | | | | | |
| BROCKVILLE<br>120000122 | | | | | | | | | | |
| CITY | 20169 | | B O D: | 77.00 | 1,347.65 | B O D: | 21.90 | 383.29 | 12 | |
| BROCKVILLE WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( 5.625) | ( 3.850 ) | S S : | 132.00 | 2,310.26 | S S : | 20.90 | 365.79 | 12 | |
| 1000 CUBIC METRES: | 25.571 | 17.502 | | | | | | | | |
| PRIMARY | | | T.PHOS: | 4.40 | 77.01 | T.PHOS: | 0.87 | 15.23 | 12 | 3 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: ST.LAWRENCE RIVER | | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| CARLETON PLACE *MIN* 110000971 | | | | | | | | | |
| TOWN | 5721 | | | B O D: | 54.00 | 291.71 | B O D: 20.40 | 110.20 | 12 | 4 |
| CARLETON PLACE WPCP | | | | | | | | | |
| CAPACITY (MIGD): | ( 1.200) | ( | 1.188 ) | S S : | 66.00 | 356.53 | S S : 41.00 | 221.48 | 12 | 8 |
| 1000 CUBIC METRES: | 5.455 | | 5.402 | | | | | | | |
| HIGH RATE | | | | T.PHOS: | 3.40 | 18.37 | T.PHOS: 1.36 | 7.35 | 11 | 6 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | WATERCOURSE: MISSISSIPPI RIVER | | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | |
| CASSELMAN *MIN* 110002201 | | | | | | | | | |
| VILLAGE | 1366 | | | B O D: | 76.00 | 51.53 | B O D: 5.40 | 3.66 | 4 | |
| CASSELMAN LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .300) | ( | .149 ) | S S : | 39.00 | 26.44 | S S : 22.70 | 15.39 | 4 | 1 |
| 1000 CUBIC METRES: | 1.364 | | .678 | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: | 4.90 | 3.32 | T.PHOS: 2.10 | 1.42 | 4 | |
| | | | | WATERCOURSE: S. NATION RIVER | | | | | | |
| CHALK RIVER *MIN* 110001587 | | | | | | | | | |
| VILLAGE | 986 | | | B O D: | 121.00 | 57.72 | B O D: 16.30 | 7.78 | 12 | 1 |
| CHALK RIVER WPCP | | | | | | | | | |
| CAPACITY (MIGD): | ( .080) | ( | .105 ) | S S : | 199.00 | 94.92 | S S : 27.70 | 13.21 | 12 | 4 |
| 1000 CUBIC METRES: | .364 | | .477 | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: | 6.80 | 3.24 | T.PHOS: 3.12 | 1.49 | 12 | |
| CONVERTIBLE OPERATING MODE | | | | | | | | | | |
| | | | | WATERCOURSE: DUCK CR TO DUCK LAKE | | | | | | |
| | | | | REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| CHESTERVILLE *MIN* | | | | | | | | | | |
| 110000114 | | | | | | | | | | |
| VILLAGE | 1457 | | | | | | | | | |
| CHESTERVILLE LAGOON | | | | B O D: | 64.00 | 45.70 | B O D: | 29.30 | 20.92 | 3 | 1 |
| CAPACITY (MIGD): | | ( .226) | ( .157 ) | S S : | 77.00 | 54.98 | S S : | 30.60 | 21.85 | 3 | 1 |
| 1000 CUBIC METRES: | 1.027 | | .714 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: | 4.40 | 3.14 | T.PHOS: | 3.26 | 2.33 | 3 | |
| | | | | WATERCOURSE: SOUTH NATION RIVER | | | | | | | |
| COBDEN | | | | | | | | | | |
| 120000596 | | | | | | | | | | |
| VILLAGE | 1035 | | | | | | | | | |
| COBDEN WPCP | | | | B O D: | 73.00 | 47.52 | B O D: | 5.50 | 3.58 | 8 | 1 |
| CAPACITY (MIGD): | | ( .150) | ( .143 ) | S S : | 108.00 | 70.31 | S S : | 8.70 | 5.66 | 12 | |
| 1000 CUBIC METRES: | .682 | | .651 | | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: | 4.80 | 3.12 | T.PHOS: | 2.03 | 1.32 | 8 | 7 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | WATERCOURSE: MUSKRAT RIVER | | | | | | | |
| | | | | REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | | | |
| CORNWALL (CORNWALL) *MIN* | | | | | | | | | | |
| 110000132 | | | | | | | | | | |
| CITY | 46800 | | | | | | | | | |
| CORNWALL WPCP | | | | B O D: | 72.00 | 3,431.95 | B O D: | 40.40 | 1,925.71 | 12 | 8 |
| CAPACITY (MIGD): | | ( 8.250) | ( 10.487 ) | S S : | 105.00 | 5,004.93 | S S : | 24.40 | 1,163.05 | 12 | 2 |
| 1000 CUBIC METRES: | 37.505 | | 47.666 | | | | | | | | |
| PRIMARY | | | | T.PHOS: | 2.60 | 123.93 | T.PHOS: | 0.99 | 47.19 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | WATERCOURSE: ST. LAWRENCE RIVER | | | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | INFLUENT<br>ANNUAL AVERAGE<br>LOADING KG/DAY | | EFFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | EFFLUENT<br>ANNUAL AVERAGE<br>LOADING KG/DAY | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | COMPLIANCE<br>MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CORNWALL (LONG SAULT)<br>120000131<br>TOWNSHIP<br>LONG SAULT WPCP<br>CAPACITY (MIGD): ( .300)<br>1000 CUBIC METRES: 1.364<br>CONVENTIONAL ACTIVATED SLUDGE | 1300 | ( .154 )<br>.702 | BOD:<br>SS:<br>T.PHOS: | 55.00<br>60.00<br>4.20 | 38.61<br>42.12<br>2.95 | BOD:<br>SS:<br>T.PHOS: | 8.80<br>15.40<br>2.26 | 6.18<br>10.81<br>1.59 | 5<br>5<br>5 | | |
| | | | WATERCOURSE: ST.LAWRENCE RIVER | | | | | | | | |
| DEEP RIVER<br>120000612<br>TOWN<br>DEEP RIVER WPCP<br>CAPACITY (MIGD): ( .480)<br>1000 CUBIC METRES: 2.182<br>PRIMARY | 4230 | ( .386 )<br>1.754 | BOD:<br>SS:<br>T.PHOS: | 154.00<br>239.00<br>9.30 | 270.12<br>419.21<br>16.31 | BOD:<br>SS:<br>T.PHOS: | 59.50<br>42.50<br>4.12 | 104.36<br>74.55<br>7.23 | 11<br>11<br>11 | | |
| | | | WATERCOURSE: OTTAWA RIVER | | | | | | | | |
| DELORO<br>120000970<br>VILLAGE<br>DELORO WPCP<br>CAPACITY (MIGD): ( .008)<br>1000 CUBIC METRES: .036<br>COMMUNAL SEPTIC TANK | 231 | ( ) | BOD:<br>SS:<br>T.PHOS: | 66.00<br>69.00<br>3.90 | | BOD:<br>SS:<br>T.PHOS: | 67.80<br>72.80<br>5.01 | | 9<br>9<br>9 | 7<br>6 | |
| | | | WATERCOURSE: MOIRA RIVER | | | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE # OF EFFLUENT DATA | COMPLIANCE # MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| DESERONTO #MIN# 110000980 | | | | | | | | | |
| TOWN | 1732 | | | | | | | | |
| DESERONTO WPCP | | | | | | | | | |
| CAPACITY (MIGD): | | ( .300) | ( .251 ) | B O D: 131.00 | 149.21 | B O D: 6.00 | 6.83 | 12 | |
| 1000 CUBIC METRES: | | 1.364 | 1.139 | S S : 132.00 | 150.35 | S S : 12.10 | 13.78 | 12 | 1 |
| EXTENDED AERATION | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | T.PHOS: 4.00 | 4.56 | T.PHOS: 0.67 | 0.76 | 12 | 1 |
| | | | | | WATERCOURSE: BAY OF QUINTE | | | | |
| EGANVILLE #MIN# 110000141 | | | | | | | | | |
| VILLAGE | 1219 | | | | | | | | |
| EGANVILLE WPCP | | | | | | | | | |
| CAPACITY (MIGD): | | ( .168) | ( .117 ) | B O D: 136.00 | 72.08 | B O D: 3.70 | 1.96 | 12 | |
| 1000 CUBIC METRES: | | .764 | .530 | S S : 144.00 | 76.32 | S S : 6.10 | 3.23 | 12 | |
| EXTENDED AERATION | | | | | | | | | |
| | | | | T.PHOS: 7.80 | 4.13 | T.PHOS: 3.90 | 2.07 | 12 | |
| | | | | | WATERCOURSE: BONNECHERE RIVER | | | | |
| ERNESTOWN (AMHERSTVIEW) #MIN# 110000196 | | | | | | | | | |
| TOWNSHIP | 6772 | | | | | | | | |
| AMHERSTVIEW LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | | ( .526) | ( .635 ) | B O D: 124.00 | 357.74 | B O D: 15.60 | 45.01 | 5 | |
| 1000 CUBIC METRES: | | 2.391 | 2.885 | S S : 153.00 | 441.41 | S S : 51.50 | 148.58 | 5 | 2 |
| CONVENTIONAL LAGOON SEASONAL | | | | | | | | | |
| | | | | T.PHOS: 6.70 | 19.33 | T.PHOS: 3.25 | 9.38 | 5 | |
| | | | | | WATERCOURSE: COLLINS CR. N.CHANNEL | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| ERNESTOWN (ODESSA) *MIN* 110002041 | | | | | | | | | |
| TOWNSHIP | 973 | | | B O D: 41.00 | 42.56 | B O D: 2.50 | 2.60 | 11 | |
| ODESSA WPCP | | | | | | | | | |
| CAPACITY (MIGD): | ( .200) | ( | .228 ) | S S : 56.00 | 58.13 | S S : 10.90 | 11.31 | 11 | |
| 1000 CUBIC METRES: | .909 | | 1.038 | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 2.40 | 2.49 | T.PHOS: 1.02 | 1.06 | 11 | 6 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| | | | | WATERCOURSE: MILLHAVEN CREEK | | | | | |
| FRANKFORD *MIN* 110000267 | | | | | | | | | |
| VILLAGE | 1970 | | | B O D: 142.00 | 235.86 | B O D: 5.90 | 9.80 | 12 | |
| FRANKFORD WPCP | | | | | | | | | |
| CAPACITY (MIGD): | ( .300) | ( | .365 ) | S S : 84.00 | 139.52 | S S : 16.70 | 27.74 | 12 | 1 |
| 1000 CUBIC METRES: | 1.364 | | 1.661 | | | | | | |
| CONTACT STABILIZATION | | | | T.PHOS: 3.70 | 6.15 | T.PHOS: 0.78 | 1.30 | 12 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| | | | | WATERCOURSE: TRENT RIVER | | | | | |
| GANANOQUE 110000285 | | | | | | | | | |
| SEPARATED TOWN | 4900 | | | B O D: 52.00 | 256.15 | B O D: 8.20 | 40.39 | 10 | |
| GANANOQUE LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .720) | ( | 1.084 ) | S S : 94.00 | 463.04 | S S : 11.50 | 56.65 | 10 | |
| 1000 CUBIC METRES: | 3.273 | | 4.926 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 3.30 | 16.26 | T.PHOS: 2.18 | 10.74 | 10 | |
| | | | | WATERCOURSE: STOCKING CR GANANOQUE R | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| GLOUCESTER (GREEN CR.)<br>120000729 | | | | | | | | | | |
| CITY | 450000 | | | B O D: 74.00 | 29,550.64 | | B O D: 34.90 | 13,936.72 | 12 | 5 |
| GREEN CREEK WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 80.000) | | ( 87.853 ) | | S S : 76.00 | 30,349.31 | | S S : 28.80 | 11,500.79 | 12 | 8 |
| 1000 CUBIC METRES: 363.680 | | 399.333 | | | | | | | | |
| PRIMARY | | | | T.PHOS: 3.30 | 1,317.80 | | T.PHOS: 2.00 | 798.67 | 12 | 9 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | WATERCOURSE: OTTAWA RIVER | | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | |
| GOULBOURN (MUNSTER)<br>120001522 | | | | | | | | | | |
| TOWNSHIP | 1300 | | | B O D: 39.00 | | | B O D: 5.50 | | 7 | |
| MUNSTER LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .080) | | ( ) | | S S : 66.00 | | | S S : 14.10 | | 7 | |
| 1000 CUBIC METRES: .364 | | | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 4.00 | | | T.PHOS: 1.66 | | 7 | |
| SPRAY IRRIGATION | | | | | | | | | | |
| | | | | WATERCOURSE: NO DISC.TO SURFACE WATER | | | | | | |
| GOULBOURN (RICHMOND)<br>110001140 | | | | | | | | | | |
| TOWNSHIP | 1773 | | | B O D: 83.00 | 156.87 | | B O D: 0.00 | 0.00 | | |
| RICHMOND LAGOON (PHASED OUT 1986) | | | | | | | | | | |
| CAPACITY (MIGD): ( .320) | | ( .416 ) | | S S : 121.00 | 228.69 | | S S : 0.00 | 0.00 | | |
| 1000 CUBIC METRES: 1.455 | | 1.890 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 6.30 | 11.91 | | T.PHOS: 0.00 | 0.00 | | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | | |
| | | | | WATERCOURSE: JOCK RIVER | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | <br>LOADING KG/DAY | EFFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | <br>LOADING KG/DAY | COMPLIANCE<br>MONTHS OF DATA | <br>MONTHS EFFLUENT EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| HAGARTY & RICHARDS(KILL) *MIN*<br>110001532 | | | | | | | | |
| TOWNSHIP | 645 | | B O D: | 174.00 | 39.32 | B O D: 2.50 | 0.57 | 12 | |
| KILLALOE STN.WPCP | | | | | | | | | |
| CAPACITY (MIGD): ( .130) | | ( .050 ) | S S : | 268.00 | 60.57 | S S : 7.70 | 1.74 | 12 | |
| 1000 CUBIC METRES: .591 | | .226 | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: | 9.70 | 2.19 | T.PHOS: 0.80 | 0.18 | 12 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| | | | WATERCOURSE: BRUDENELL CREEK | | | | | | |
| HAWKESBURY *MIN*<br>110002283 | | | | | | | | |
| TOWN | 9680 | | B O D: | 68.00 | 720.80 | B O D: 13.20 | 139.92 | 12 | 1 |
| HAWKESBURY WPCP | | | | | | | | | |
| CAPACITY (MIGD): ( 2.700) | | ( 2.332 ) | S S : | 76.00 | 805.60 | S S : 9.40 | 99.64 | 12 | |
| 1000 CUBIC METRES: 12.274 | | 10.600 | | | | | | | |
| MODIFIED ACTIVATED SLUDGE | | | T.PHOS: | 3.40 | 36.04 | T.PHOS: 0.97 | 10.28 | 12 | 3 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| | | | WATERCOURSE: OTTAWA RIVER | | | | | | |
| IROQUOIS<br>120000159 | | | | | | | | |
| VILLAGE | 1212 | | B O D: | 186.00 | 829.56 | B O D: 80.00 | 356.80 | 1 | |
| IROQUOIS WPCP | | | | | | | | | |
| CAPACITY (MIGD): ( 1.100) | | ( .981 ) | S S : | 133.00 | 593.18 | S S : 79.00 | 352.34 | 1 | 1 |
| 1000 CUBIC METRES: 5.001 | | 4.460 | | | | | | | |
| PRIMARY | | | T.PHOS: | 3.70 | 16.50 | T.PHOS: 1.90 | 8.47 | 1 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| | | | WATERCOURSE: ST. LAWRENCE RIVER | | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT | | EFFLUENT | | COMPLIANCE | |
|---|---|---|---|---|---|---|---|---|
| | | | ANNUAL AVERAGE | | ANNUAL AVERAGE | | MONTHS OF EFFLUENT DATA | MONTHS EXCEEDED |
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| **KEMPTVILLE** | | | | | | | | |
| TOWN 120000113 | | | | | | | | |
| KEMPTVILLE WPCP | 2400 | | | | | | | |
| CAPACITY (MIGD): ( .500) | | ( .406 ) | B O D: 117.00 | 215.75 | B O D: 39.20 | 72.28 | 11 | 1 |
| 1000 CUBIC METRES: 2.273 | | 1.844 | S S : 120.00 | 221.28 | S S : 29.80 | 54.95 | 11 | 4 |
| PRIMARY | | | T.PHOS: 7.10 | 13.09 | T.PHOS: 3.33 | 6.14 | 11 | 10 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: KEMPTVILLE CREEK | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | |
| **KINGSTON** | | | | | | | | |
| #MIN# | | | | | | | | |
| TOWNSHIP 110000365 | | | | | | | | |
| KINGSTON WPCP | 18700 | | | | | | | |
| CAPACITY (MIGD): ( 5.500) | | ( 3.599 ) | B O D: 236.00 | 3,860.96 | B O D: 10.70 | 175.05 | 12 | |
| 1000 CUBIC METRES: 25.003 | | 16.360 | S S : 312.00 | 5,104.32 | S S : 8.50 | 139.06 | 12 | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 6.20 | 101.43 | T.PHOS: 0.89 | 14.56 | 12 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: LAKE ONTARIO | | | | | |
| **KINGSTON** | | | | | | | | |
| CITY 120001050 | | | | | | | | |
| KINGSTON WPCP | 67000 | | | | | | | |
| CAPACITY (MIGD): ( 13.500) | | ( 13.378 ) | B O D: 96.00 | 5,837.66 | B O D: 19.50 | 1,185.78 | 12 | |
| 1000 CUBIC METRES: 61.371 | | 60.809 | S S : 114.00 | 6,932.23 | S S : 17.90 | 1,088.48 | 12 | |
| PRIMARY | | | T.PHOS: 4.20 | 255.40 | T.PHOS: 0.72 | 43.78 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: ST.LAWRENCE RIVER | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | EFFLUENT ANNUAL AVERAGE | | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| L'ORIGNAL *MIN* 110001701 | | | | | | | | |
| VILLAGE | 1665 | | B O D: | 81.00 | 53.30 | B O D: | 17.20 | 11.32 | 12 | 2 |
| L'ORIGNAL WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .210) | | ( .145 ) | S S : | 92.00 | 60.54 | S S : | 11.20 | 7.37 | 12 | 7 |
| 1000 CUBIC METRES: .955 | | .658 | | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: | 6.00 | 3.95 | T.PHOS: | 3.25 | 2.14 | 12 | |
| | | | WATERCOURSE: OTTAWA RIVER | | | | | | | |
| LANCASTER *MIN* 110001925 | | | | | | | | |
| VILLAGE | 600 | | B O D: | 123.00 | 60.89 | B O D: | 26.00 | 12.87 | 3 | |
| LANCASTER LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .130) | | ( .109 ) | S S : | 155.00 | 76.73 | S S : | 60.90 | 30.15 | 3 | 2 |
| 1000 CUBIC METRES: .591 | | .495 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: | 6.00 | 2.97 | T.PHOS: | 2.20 | 1.09 | 3 | |
| | | | WATERCOURSE: FINNEY CREEK | | | | | | | |
| | | | REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | | | |
| LEEDS & LANSDOWNE *MIN* 110001934 | | | | | | | | |
| TOWNSHIP | 550 | | B O D: | 131.00 | 15.72 | B O D: | 3.20 | 0.38 | 2 | |
| LANSDOWNE LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .074) | | ( .026 ) | S S : | 87.00 | 10.44 | S S : | 9.50 | 1.14 | 2 | |
| 1000 CUBIC METRES: .336 | | .120 | | | | | | | | |
| LAGOON AND SPRAY | | | T.PHOS: | 8.00 | 0.96 | T.PHOS: | 1.60 | 0.19 | 2 | |
| | | | WATERCOURSE: NO DISC.TO SURFACE WATER | | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | MONTHS OF EFFLUENT DATA | MONTHS EXCEEDED | COMPLIANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MADOC *MIN* 110001051 | | | | | | | | | | | |
| VILLAGE | 850 | | | | | | | | | | |
| MADOC LAGOON | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .300) | ( .161 ) | | | | | | | | | |
| 1000 CUBIC METRES: 1.364 | | .733 | | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH | | | BOD: | 132.00 | 96.76 | BOD: | 5.70 | 4.18 | 5 | | |
| | | | SS : | 163.00 | 119.48 | SS : | 13.00 | 9.53 | 4 | | |
| | | | T.PHOS: | 6.90 | 5.06 | T.PHOS: | 0.30 | 0.22 | 5 | | |
| | | | WATERCOURSE: DEER CREEK TO MOIRA LAKE | | | | | | | | |
| HARMORA *MIN* 110001863 | | | | | | | | | | | |
| VILLAGE | 1067 | | | | | | | | | | |
| HARMORA WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .191) | ( .165 ) | | | | | | | | | |
| 1000 CUBIC METRES: .868 | | .749 | | | | | | | | | |
| EXTENDED AERATION PHOSPHORUS REMOVAL-CONTINUOUS | | | BOD: | 114.00 | 85.39 | BOD: | 3.30 | 2.47 | 12 | | |
| | | | SS : | 122.00 | 91.38 | SS : | 11.50 | 8.61 | 12 | | 1 |
| | | | T.PHOS: | 5.40 | 4.04 | T.PHOS: | 0.67 | 0.50 | 12 | | |
| | | | WATERCOURSE: CROWE RIVER | | | | | | | | |
| MERRICKVILLE *MIN* 110001729 | | | | | | | | | | | |
| VILLAGE | 935 | | | | | | | | | | |
| MERRICKVILLE WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .110) | ( .086 ) | | | | | | | | | |
| 1000 CUBIC METRES: .500 | | .391 | | | | | | | | | |
| EXTENDED AERATION PHOSPHORUS REMOVAL-CONTINUOUS | | | BOD: | 108.00 | 42.25 | BOD: | 11.00 | 4.30 | 12 | | 2 |
| | | | SS : | 124.00 | 48.48 | SS : | 20.00 | 7.82 | 12 | | 3 |
| | | | T.PHOS: | 5.40 | 2.11 | T.PHOS: | 1.23 | 0.48 | 12 | | 3 |
| | | | WATERCOURSE: RIDEAU RIVER | | | | | | | | |
| | | | REMEDIAL MEASURE: PROCESS/EQUIPMENT IMPROVEMENTS | | | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | INFLUENT<br>ANNUAL AVERAGE<br>LOADING KG/DAY | EFFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | EFFLUENT<br>ANNUAL AVERAGE<br>LOADING KG/DAY | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | COMPLIANCE<br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| **MORRISBURG** | | | | | | | | |
| 120000168 | | | | | | | | |
| VILLAGE | 2737 | | BOD: 48.00 | 133.20 | BOD: 24.90 | 69.10 | 9 | 2 |
| MORRISBURG WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .500) | | ( .611 ) | SS : 55.00 | 152.63 | SS : 40.30 | 111.83 | 9 | 6 |
| 1000 CUBIC METRES: 2.273 | | 2.775 | | | | | | |
| PRIMARY | | | T.PHOS: 2.90 | 8.05 | T.PHOS: 1.75 | 4.86 | 9 | |
| CONVENTIONAL LAGOON CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: ST. LAWRENCE RIVER | | | | | |
| | | | REMEDIAL MEASURE: MONITOR SS CLOSELY | | | | | |
| **NAPANEE** | | | | | | | | |
| 120000184 | | | | | | | | |
| TOWN | 7500 | | BOD: 115.00 | 851.00 | BOD: 5.70 | 42.16 | 12 | |
| NAPANEE WPCP | | | | | | | | |
| CAPACITY (MIGD): ( 2.000) | | ( 1.628 ) | SS : 140.00 | 1,036.00 | SS : 10.30 | 76.22 | 12 | |
| 1000 CUBIC METRES: 9.092 | | 7.400 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 12.20 | 90.28 | T.PHOS: 1.41 | 10.43 | 12 | 9 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: NAPANEE RIVER | | | | | |
| | | | REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | |
| **NEPEAN (CARLETON)** | | | | | | | | |
| 120003307 | | | | | | | | |
| CITY | 170 | | BOD: 158.00 | 18.64 | BOD: 6.80 | 0.80 | 12 | |
| CARLTON LODGE WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .010) | | ( .026 ) | SS : 116.00 | 13.69 | SS : 12.70 | 1.50 | 12 | |
| 1000 CUBIC METRES: .045 | | .118 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 7.00 | 0.83 | T.PHOS: 3.97 | 0.47 | 12 | |
| | | | WATERCOURSE: RIDEAU RIVER | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKS NUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| **HEPEAN (MATTS CREEK)** | | | | | | | | | | |
| 120000701 | | | | | | | | | | |
| CITY | 52500 | | B O D: | 115.00 | 3,438.73 | B O D: | 24.20 | 723.63 | 12 | 1 |
| MATTS CREEK WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 6.500) | | ( 6.578 ) | S S : | 145.00 | 4,335.79 | S S : | 10.10 | 302.01 | 12 | |
| 1000 CUBIC METRES: 29.549 | | 29.902 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: | 4.80 | 143.53 | T.PHOS: | 0.86 | 25.72 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: MATTS CREEK | | | | | | | |
| **OSHAWRUCK (INGLESIDE)** | | | | | | | | | | |
| 120000140 | | | | | | | | | | |
| TOWNSHIP | 1500 | | B O D: | 36.00 | 32.90 | B O D: | 24.00 | 21.94 | 12 | 4 |
| INGLESIDE WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( .346) | | ( .201 ) | S S : | 41.00 | 37.47 | S S : | 23.70 | 21.66 | 12 | 7 |
| 1000 CUBIC METRES: 1.573 | | .914 | | | | | | | | |
| PRIMARY | | | T.PHOS: | 3.00 | 2.74 | T.PHOS: | 2.56 | 2.34 | 12 | |
| | | | WATERCOURSE: ST. LAWRENCE RIVER | | | | | | | |
| | | | REMEDIAL MEASURE: MAINENANCE/OPERATION UPGRADING | | | | | | | |
| **PEMBROKE** | | | | | | | | | | |
| 120000630 | | | | | | | | | | |
| CITY | 17000 | | B O D: | 74.00 | 936.05 | B O D: | 45.00 | 569.21 | 1 | 1 |
| PEMBROKE WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 2.500) | | ( 2.783 ) | S S : | 172.00 | 2,175.63 | S S : | 27.40 | 346.58 | 3 | |
| 1000 CUBIC METRES: 11.365 | | 12.649 | | | | | | | | |
| PRIMARY | | | T.PHOS: | 4.40 | 55.66 | T.PHOS: | 1.57 | 19.86 | 3 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: OTTAWA RIVER | | | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | EFFLUENT ANNUAL AVERAGE | | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | COMPLIANCE<br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| **PERTH**<br>120000881<br>TOWN<br>PERTH LAGOON<br>CAPACITY (MIGD): ( 1.300)<br>1000 CUBIC METRES: 5.910<br>CONVENTIONAL LAGOON CONTINUOUS<br>PHOSPHORUS REMOVAL-CONTINUOUS | 5648 | ( 1.457 )<br>6.623 | B O D: 146.00<br>S S : 184.00<br>T.PHOS: 4.10 | 966.96<br>1,218.61<br>27.15 | B O D: 15.60<br>S S : 26.70<br>T.PHOS: 0.58 | 90.07<br>176.83<br>3.84 | 11<br>11<br>11 | 1<br>1<br>1 |
| WATERCOURSE: TAY RIVER | | | | | | | | |
| **PETAWAWA** **MIN**<br>120000587<br>VILLAGE<br>PETAWAWA WPCP<br>CAPACITY (MIGD): ( 1.000)<br>1000 CUBIC METRES: 4.546<br>PRIMARY<br>PHOSPHORUS REMOVAL-CONTINUOUS | 14000 | ( .887 )<br>4.033 | B O D: 137.00<br>S S : 127.00<br>T.PHOS: 6.10 | 552.52<br>512.19<br>24.60 | B O D: 77.80<br>S S : 58.90<br>T.PHOS: 4.60 | 313.77<br>237.54<br>18.55 | 12<br>12<br>12 | 7<br>12<br>12 |
| WATERCOURSE: OTTAWA RIVER<br>REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | | |
| **PICTON**<br>120000647<br>TOWN<br>PICTON WPCP<br>CAPACITY (MIGD): ( 1.000)<br>1000 CUBIC METRES: 4.546<br>CONTACT STABILIZATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | 4500 | ( .681 )<br>3.097 | B O D: 54.00<br>S S : 75.00<br>T.PHOS: 4.10 | 167.24<br>232.28<br>12.70 | B O D: 5.70<br>S S : 8.40<br>T.PHOS: 0.50 | 17.65<br>26.01<br>1.55 | 11<br>11<br>11 | <br><br>1 |
| WATERCOURSE: PICTON BAY<br>REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT<br>ANNUAL AVERAGE | | EFFLUENT<br>ANNUAL AVERAGE | | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | COMPLIANCE<br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| PITTSBURG (CANA) *MIN* 110001505 | | | | | | | | |
| TOWNSHIP | 108 | | B O D: | 78.00 | 10.37 | B O D: | 9.20 | 1.22 | 12 | 1 |
| CANA WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .021) | | ( .029 ) | S S : | 117.00 | 15.56 | S S : | 18.70 | 2.49 | 12 | 3 |
| 1000 CUBIC METRES: .095 | | .133 | | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: | 4.50 | 0.60 | T.PHOS: | 2.62 | 0.35 | 12 | |
| | | | WATERCOURSE: CATARAQUI RIVER | | | | | | | |
| PLANTAGENET *MIN* 110001621 | | | | | | | | |
| VILLAGE | 876 | | B O D: | 119.00 | 67.00 | B O D: | 8.90 | 5.01 | 3 | |
| PLANTAGENET LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .130) | | ( .124 ) | S S : | 206.00 | 115.98 | S S : | 16.20 | 9.12 | 3 | |
| 1000 CUBIC METRES: .591 | | .563 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: | 8.80 | 4.95 | T.PHOS: | 0.55 | 0.31 | 3 | |
| | | | WATERCOURSE: SOUTH NATION RIVER | | | | | | | |
| PRESCOTT (EDWARDSBURGH) *MIN* 110001122 | | | | | | | | |
| SEPARATED TOWN | 4595 | | B O D: | 59.00 | 304.20 | B O D: | 17.10 | 88.17 | 12 | |
| EDWARDSBURGH WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 1.250) | | ( 1.134 ) | S S : | 131.00 | 675.44 | S S : | 20.30 | 104.67 | 12 | 1 |
| 1000 CUBIC METRES: 5.683 | | 5.156 | | | | | | | | |
| PRIMARY | | | T.PHOS: | 3.40 | 17.53 | T.PHOS: | 0.60 | 3.09 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | WATERCOURSE: ST. LAWRENCE RIVER | | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| **RENFREW**<br>120000603 | | | | | | | | | | |
| TOWN | 8200 | | | B O D: 154.00 | 1,249.40 | | B O D: 29.00 | 235.28 | 11 | 3 |
| RENFREW WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( 1.900) | ( 1.785 ) | | S S : 120.00 | 973.56 | | S S : 31.30 | 253.94 | 10 | 3 |
| 1000 CUBIC METRES: | 8.637 | 8.113 | | | | | | | | |
| PRIMARY | | | | T.PHOS: 4.10 | 33.26 | | T.PHOS: 1.26 | 10.22 | 10 | 4 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | WATERCOURSE: BONNECHERE RIVER | | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | |
| **ROCKLAND** *MIN*<br>110001159 | | | | | | | | | | |
| TOWN | 5000 | | | B O D: 148.00 | 292.89 | | B O D: 14.00 | 27.71 | 12 | |
| ROCKLAND LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | ( .735) | ( .435 ) | | S S : 376.00 | 744.10 | | S S : 12.00 | 23.75 | 12 | |
| 1000 CUBIC METRES: | 3.341 | 1.979 | | | | | | | | |
| AERATED CELL PLUS LAGOON | | | | T.PHOS: 10.70 | 21.18 | | T.PHOS: 2.37 | 4.69 | 12 | |
| | | | | WATERCOURSE: OTTAWA RIVER | | | | | | |
| **RUSSELL** *MIN*<br>110001514 | | | | NO 1985 DISCHARGE | | | | | | |
| TOWNSHIP | 1400 | | | B O D: 166.00 | 47.14 | | B O D: 0.00 | 0.00 | | |
| RUSSELL LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | ( .220) | ( .062 ) | | S S : 186.00 | 52.82 | | S S : 0.00 | 0.00 | | |
| 1000 CUBIC METRES: | 1.000 | .284 | | | | | | | | |
| CONVENTIONAL LAGOON ANNUAL | | | | T.PHOS: 9.10 | 2.58 | | T.PHOS: 0.00 | 0.00 | | |
| | | | | WATERCOURSE: CASTOR RIVER | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKS NUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE | CONC. (MG/L) | LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SIDNEY (BATAWA) *MIN* 110000668 | | | | | | | | | | | |
| TOWNSHIP | 300 | | B O D: | 96.00 | 125.38 | B O D: | 5.00 | 6.53 | 12 | | |
| BATAWA WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): ( .125) | | ( .287 ) | S S : | 54.00 | 70.52 | S S : | 11.00 | 14.37 | 12 | | |
| 1000 CUBIC METRES: .568 | | 1.306 | | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: | 2.30 | 3.00 | T.PHOS: | 0.86 | 1.12 | 12 | 1 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | WATERCOURSE: TRENT RIVER | | | | | | | | |
| SMITHS FALLS 120000890 | | | | | | | | | | | |
| SEPARATED TOWN | 11000 | | B O D: | 102.00 | 1,717.37 | B O D: | 58.60 | 986.65 | 8 | 6 | |
| SMITHS FALLS WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): ( 2.500) | | ( 3.704 ) | S S : | 162.00 | 2,727.59 | S S : | 50.90 | 857.00 | 8 | 4 | |
| 1000 CUBIC METRES: 11.365 | | 16.837 | | | | | | | | | |
| PRIMARY | | | T.PHOS: | 4.40 | 74.08 | T.PHOS: | 1.37 | 23.07 | 7 | 3 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | WATERCOURSE: RIDEAU RIVER | | | | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | | |
| ST. ISIDORE DE PRESCOTT *MIN* 110002210 | | | NO 1985 DISCHARGE | | | | | | | | |
| VILLAGE | 699 | | B O D: | 199.00 | 46.77 | B O D: | 0.00 | 0.00 | | | |
| ST.ISIDORE LAGOON | | | | | | | | | | | |
| CAPACITY (MIGD): ( .144) | | ( .052 ) | S S : | 197.00 | 46.30 | S S : | 0.00 | 0.00 | | | |
| 1000 CUBIC METRES: .655 | | .235 | | | | | | | | | |
| CONVENTIONAL LAGOON ANNUAL | | | T.PHOS: | 10.60 | 2.49 | T.PHOS: | 0.00 | 0.00 | | | |
| | | | WATERCOURSE: SCOTCH RIVER | | | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT<br>ANNUAL AVERAGE | | EFFLUENT<br>ANNUAL AVERAGE | | COMPLIANCE<br>MONTHS OF DATA | COMPLIANCE<br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| STIRLING *MIN* 110000686 | | | | | | | | |
| VILLAGE | 1700 | | B O D: 174.00 | 113.27 | B O D: 26.00 | 16.93 | 2 | 1 |
| STIRLING LAGOON (MUN.16.1.86) | | | | | | | | |
| CAPACITY (MIGD): ( .250) | | ( .143 ) | S S : 152.00 | 98.95 | S S : 26.50 | 17.25 | 2 | 1 |
| 1000 CUBIC METRES: 1.137 | | .651 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 6.70 | 4.36 | T.PHOS: 0.60 | 0.39 | 2 | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | |
| | | | WATERCOURSE: RAWDON CREEK | | | | | |
| TRENTON *MIN* 110000775 | | | | | | | | |
| CITY | 15346 | | B O D: 234.00 | 2,707.61 | B O D: 10.80 | 124.97 | 12 | |
| TRENTON WPCP | | | | | | | | |
| CAPACITY (MIGD): ( 3.500) | | ( 2.546 ) | S S : 176.00 | 2,036.50 | S S : 13.00 | 150.42 | 12 | 1 |
| 1000 CUBIC METRES: 15.911 | | 11.571 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 6.00 | 69.43 | T.PHOS: 0.66 | 7.64 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: BAY OF QUINTE | | | | | |
| TWEED *MIN* 120000952 | | | | | | | | |
| VILLAGE | 1629 | | B O D: 61.00 | 112.42 | B O D: 21.00 | 38.70 | 3 | 1 |
| TWEED LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .266) | | ( .405 ) | S S : 114.00 | 210.10 | S S : 19.00 | 35.02 | 3 | |
| 1000 CUBIC METRES: 1.209 | | 1.843 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 3.60 | 6.63 | T.PHOS: 1.23 | 2.27 | 3 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: MOIRA RIVER | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | MONTHS OF EFFLUENT DATA | MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| VANKLEEK HILL *MIN* | | | | | | | | | | |
| 110001658 | | | | | | | | | | |
| TOWN | 1711 | | | B O D: 88.00 | 74.71 | | B O D: 16.50 | 14.01 | 3 | 1 |
| VANKLEEK HILL LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .200) | | ( .187 ) | | S S : 123.00 | 104.43 | | S S : 26.60 | 22.58 | 3 | |
| 1000 CUBIC METRES: .909 | | .849 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 5.10 | 4.33 | | T.PHOS: 1.56 | 1.32 | 3 | |
| | | | | WATERCOURSE: LITTLE RIDEAU CREEK | | | | | | |
| WELLINGTON | | | | | | | | | | |
| 120003165 | | | | | | | | | | |
| VILLAGE | 1077 | | | B O D: 131.00 | 78.60 | | B O D: 1.00 | 0.60 | 12 | |
| WELLINGTON WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( .330) | | ( .132 ) | | S S : 196.00 | 117.60 | | S S : 3.10 | 1.86 | 12 | |
| 1000 CUBIC METRES: 1.500 | | .600 | | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 6.50 | 3.90 | | T.PHOS: 0.61 | 0.37 | 12 | 1 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | | WATERCOURSE: LAKE ONTARIO | | | | | | |
| WESTPORT *MIN* | | | | | | | | | | |
| 110001550 | | | | | | | | | | |
| VILLAGE | 614 | | | B O D: 106.00 | 31.48 | | B O D: 16.00 | 4.75 | 4 | 1 |
| WESTPORT LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .072) | | ( .065 ) | | S S : 107.00 | 31.78 | | S S : 26.80 | 7.96 | 4 | 3 |
| 1000 CUBIC METRES: .327 | | .297 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 5.80 | 1.72 | | T.PHOS: 0.59 | 0.18 | 4 | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | | |
| | | | | WATERCOURSE: UPPER RIDEAU LAKE | | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | |

SOUTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| WINCHESTER<br>110001202 | *MIN* | | | | | | | | | |
| VILLAGE | 2002 | | | B O D: | 159.00 | 171.56 | B O D: | 18.10 | 19.53 | 3 | |
| WINCHESTER LAGOON | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .200) | ( .237 ) | | S S : | 214.00 | 230.91 | S S : | 43.10 | 46.50 | 3 | 2 |
| 1000 CUBIC METRES: | .909 | 1.079 | | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: | 9.20 | 9.93 | T.PHOS: | 4.86 | 5.24 | 3 | |
| | | | | | | | | | | | |
| | | | | WATERCOURSE: CASTOR RIVER | | | | | | | |

# SOUTHEASTERN REGION

## WASTEWATER TREATMENT

# REGIONAL MUNICIPALITIES

| REGIONAL MUNICIPALITIES | CAPACITY | |
|---|---|---|
| | $1000m^3$ | MIGD |
| OTTAWA - CARLETON . . . . . | 395.0 | 86.9 |

REGIONAL MUNICIPALITY OF OTTAWA-CARLETON

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD (1000M3) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| GLOUCESTER (GREEN CR.)<br>CITY<br>GREEN CREEK WPCP<br>120000729 | PRIMARY<br>PHOSPHORUS REMOVAL-CONTINUOUS | OTTAWA RIVER | 80.000<br>( 363.680) | 450000 | MUNICIPALITY |
| GOULBOURN (MUNSTER)<br>TOWNSHIP<br>MUNSTER LAGOON<br>120001522 | CONVENTIONAL LAGOON SEASONAL SPRAY IRRIGATION | NO DISC.TO SURFACE WATER | .080<br>( .364) | 1300 | MUNICIPALITY |
| GOULBOURN (RICHMOND)<br>TOWNSHIP<br>RICHMOND LAGOON (PHASED OUT 1986)<br>110001140 | CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH | JOCK RIVER | .320<br>( 1.455) | 1773 | MUNICIPALITY |
| NEPEAN (CARLETON)<br>CITY<br>CARLTON LODGE WPCP<br>120003307 | EXTENDED AERATION | RIDEAU RIVER | .010<br>( .045) | 170 | MUNICIPALITY |
| NEPEAN (MATTS CREEK)<br>CITY<br>MATTS CREEK WPCP<br>120000701 | CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS | MATTS CREEK | 6.500<br>( 29.549) | 52500 | MUNICIPALITY |
| | | TOTAL CAPACITY | 86.910<br>( 395.093) | | |

SOUTHEASTERN REGION

# AREA WASTEWATER TREATMENT SYSTEMS

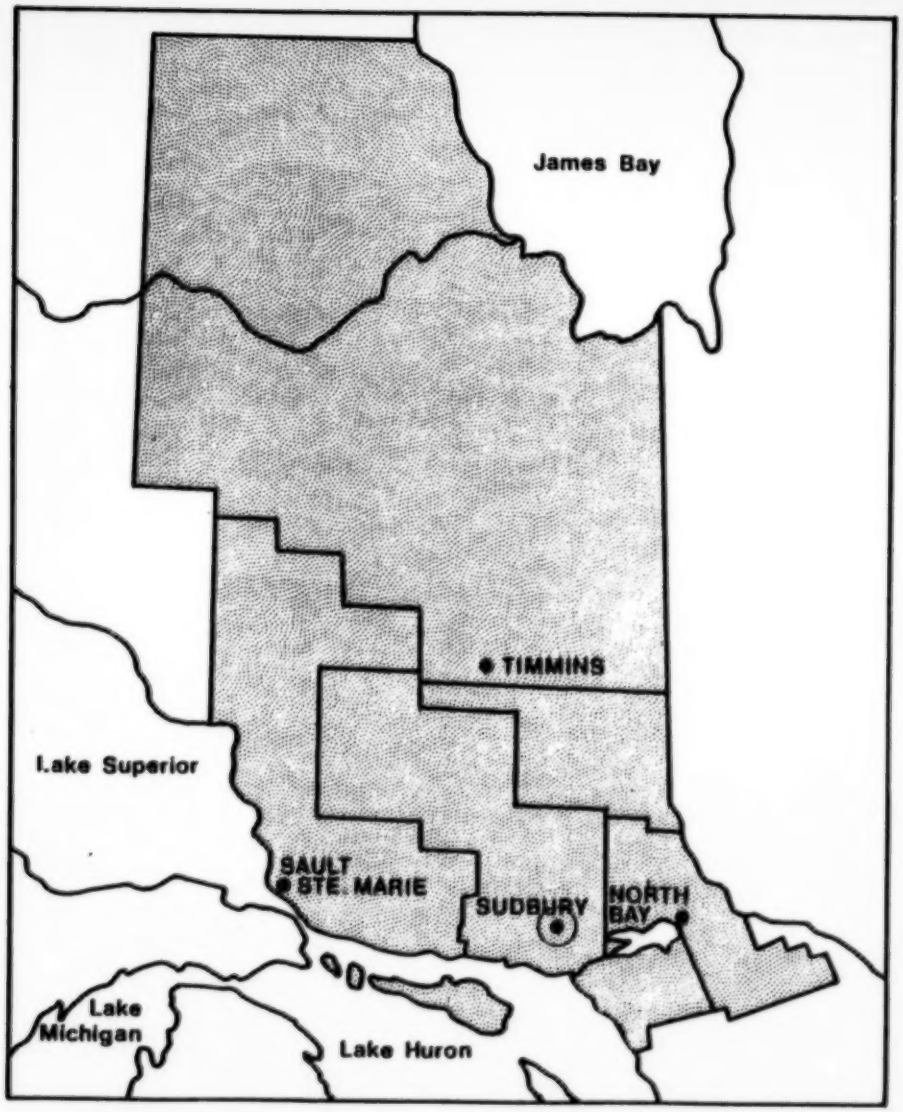
| TOTAL AREA WASTEWATER TREATMENT SYSTEMS | TOTAL CAPACITY $1000m^3$ | MIGD |
|---|---|---|
| ONE | 393.2 | 86.5 |

**SYSTEM:** **OTTAWA-CARLTON POLLUTION CONTROL SYSTEM**

Number of Plants: Two
Operated by: Regional Municipality of Ottawa-Carlton

Number of Municipalities Served: Seven

| PLANT LOCATION | TREATMENT | CAPACITY | MUNICIPALITIES SERVED | WATERCOURSE |
|---|---|---|---|---|
| NEPEAN CITY<br>- Watts Creek WPCP<br>120000701 | Conv. Act. Sludge<br>Phosphorus Removal | 6.5 MIGD<br>(29.55 1000$m^3$/d) | Nepean City<br>Ottawa City<br>Goulbourn Twp. | Watts Creek |
| GLOUCESTER<br>- Green Creek WPCP<br>120000729 | Primary<br>Phosphorus Removal | 80.0 MIGD<br>(363.68 1000$m^3$/d) | Gloucester City<br>Nepean City<br>Ottawa City<br>Vanier City<br>Rockcliffe Park Village<br>Cumberland Twp. | Ottawa River |


James Bay
TIMMINS
Lake Superior
SAULT STE. MARIE
SUDBURY
NORTH BAY
Lake Michigan
Lake Huron

# Northeastern Region

Ministry of the Environment
Ontario

**REGIONAL OFFICE**

Sudbury
199 Larch St.
P3E 5P9
705 675-4501

**DISTRICT OFFICES**

North Bay
1500 Fisher St.
P1B 2H3
705 476-1001

Sault Ste. Marie
445 Albert St. E.
P6A 2J9
705 949-4640

Sudbury
199 Larch St.
P3E 5P9
705 675-4501

Timmins
83 Algonquin Blvd. W.
P4N 2R4
705 264-9474

**SUB-OFFICE**

Parry Sound
74 Church St.
P2A 1Z1
705 746-2139

NORTHEASTERN REGION SUMMARY

| TREATMENT TYPE | NUMBER | | | CAPACITY MIGD ** ($1000M^3$) | | |
|---|---|---|---|---|---|---|
| | MINISTRY | MUNICIPAL | TOTAL | MINISTRY | MUNICIPAL | TOTAL |
| COMMUNAL SEPTIC TANK | 0 | 4 | 4 | .000 | .277 | .277 ( 1.259) |
| PRIMARY | 2 | 3 | 5 | 12.660 | 8.030 | 20.690 ( 94.057) |
| CONVENTIONAL ACTIVATED SLUDGE | 3 | 3 | 6 | 10.450 | 5.510 | 15.960 ( 72.554) |
| CONTACT STABILIZATION | 4 | 0 | 4 | 4.362 | .000 | 4.362 ( 19.830) |
| EXTENDED AERATION | 8 | 8 | 16 | 4.144 | 6.243 | 10.387 ( 47.219) |
| TRICKLING FILTER | 0 | 1 | 1 | .000 | .100 | .100 ( .455) |
| HIGH RATE | 0 | 1 | 1 | .000 | 15.000 | 15.000 ( 68.190) |
| OXIDATION DITCH | 0 | 1 | 1 | .000 | .299 | .299 ( 1.359) |
| CONVENTIONAL LAGOON CONTINUOUS | 4 | 3 | 7 | .891 | .817 | 1.708 ( 7.765) |
| CONVENTIONAL LAGOON SEASONAL | 21 | 6 | 27 | 3.170 | 1.824 | 4.994 ( 22.703) |
| AERATED CELL PLUS LAGOON | 1 | 1 | 2 | 1.500 | .086 | 1.586 ( 7.210) |
| EXFILTRATION LAGOON | 1 | 1 | 2 | .240 | .340 | .580 ( 2.637) |
| **** TOTALS **** | 44 | 32 | 76 | 37.417 ( 170.098) | 38.526 ( 175.139) | 75.943 ( 345.237) |

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$ :THOUSANDS OF CUBIC METRES

CONVERSION FACTOR

1 MIGD = 4.546 $1000M^3$

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | INFLUENT<br>LOADING KG/DAY | | EFFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | EFFLUENT<br>LOADING KG/DAY | | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | COMPLIANCE<br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ARMSTRONG (EARLTON)<br>120000042 | | | | | | | | | | | |
| TOWNSHIP | 1450 | | | B O D: 77.00 | | | B O D: 24.40 | | | 11 | 5 |
| EARLTON LAGOON | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .080) | ( | ) | S S : 96.00 | | | S S : 21.30 | | | 11 | 1 |
| 1000 CUBIC METRES: | .364 | | | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 4.70 | | | T.PHOS: 2.92 | | | 11 | |
| | | | | | | | | | | | |
| | | | | WATERCOURSE: EVANTUREL CREEK | | | | | | | |
| ASSIGINACK(MANITOWANING) *MIN*<br>110001408 | | | | | | | | | | | |
| TOWNSHIP | 440 | | | B O D: 79.00 | 20.30 | | B O D: 17.40 | 4.47 | | 2 | |
| MANITOWANING LAGOON | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .055) | ( | .057 ) | S S : 89.00 | 22.87 | | S S : 40.50 | 10.41 | | 2 | 1 |
| 1000 CUBIC METRES: | .250 | | .257 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 4.40 | 1.13 | | T.PHOS: 2.90 | 0.75 | | 2 | |
| | | | | | | | | | | | |
| | | | | WATERCOURSE: LAKE HURON | | | | | | | |
| BLACK R MATHESON(HLT-ROS<br>120003209 | | | | | | | | | | | |
| TOWNSHIP | 159 | | | B O D: 0.00 | | | B O D: 0.00 | | | | |
| HOLTYRE-ROSS MINE MPCP | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .000) | ( | ) | S S : 0.00 | | | S S : 0.00 | | | | |
| 1000 CUBIC METRES: | .000 | | | | | | | | | | |
| COMMUNAL SEPTIC TANK | | | | T.PHOS: 0.00 | | | T.PHOS: 0.00 | | | | |
| | | | | | | | | | | | |
| | | | | WATERCOURSE: BLACK RIVER | | | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED EFFLUENT | |
|---|---|---|---|---|---|---|---|---|---|---|
| BLACK R MATHESON(HOLTYRE<br>120000328 | | | | | | | | | | |
| TOWNSHIP | 160 | | | B O D: | 0.00 | B O D: | 0.00 | | | |
| HOLTYRE WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | | ( .052) | ( ) | S S : | 0.00 | S S : | 0.00 | | | |
| 1000 CUBIC METRES: | | .236 | | | | | | | | |
| COMMUNAL SEPTIC TANK | | | | T.PHOS: | 0.00 | T.PHOS: | 0.00 | | | |
| | | | | WATERCOURSE: BLACK RIVER | | | | | | |
| BLACK R MATHESON(MATH) *MIN*<br>110000025 | | | | | | | | | | |
| TOWNSHIP | 920 | | | B O D: | 55.00 | 42.63 | B O D: | 4.80 | 3.72 | 12 |
| MATHESON WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | | ( .230) | ( .171 ) | S S : | 67.00 | 51.93 | S S : | 6.80 | 5.27 | 12 |
| 1000 CUBIC METRES: | | 1.046 | .775 | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: | 3.80 | 2.95 | T.PHOS: | 1.59 | 1.23 | 12 |
| | | | | WATERCOURSE: BLACK RIVER | | | | | | |
| BLACK R MATHESON(RAMORE) *MIN*<br>110001104 | | | | | | | | | | |
| TOWNSHIP | 320 | | | B O D: | 108.00 | 13.61 | B O D: | 28.90 | 3.64 | 7 2 |
| RAMORE LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | | ( .027) | ( .028 ) | S S : | 105.00 | 13.23 | S S : | 26.00 | 3.28 | 7 1 |
| 1000 CUBIC METRES: | | .123 | .126 | | | | | | | |
| CONVENTIONAL LAGOON CONTINUOUS | | | | T.PHOS: | 5.60 | 0.71 | T.PHOS: | 3.48 | 0.44 | 7 |
| | | | | WATERCOURSE: BLACK RIVER | | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER / EXISTING CAPACITY AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD) 1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE # OF DATA | COMPLIANCE MONTHS EFFLUENT EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| BLACK R MATHESON(VAL GAG *MIN* 120001559 | | | | | | | | |
| TOWNSHIP | | | | | | | | |
| VAL GAGNE LAGOON | 300 | | B O D: 105.00 | 8.51 | B O D: 18.70 | 1.51 | 5 | |
| CAPACITY (MIGD): ( .027) | | ( .018 ) | S S : 156.00 | 12.64 | S S : 16.90 | 1.37 | 5 | |
| 1000 CUBIC METRES: .123 | | .081 | T.PHOS: 5.70 | 0.46 | T.PHOS: 2.92 | 0.24 | 5 | |
| CONVENTIONAL LAGOON CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: CREEK TO BLACK RIVER | | | | | |
| BLIND RIVER *MIN* 110002416 | | | | | | | | |
| TOWN | | | | | | | | |
| BLIND RIVER WPCP | 3200 | | B O D: 61.00 | 165.37 | B O D: 4.50 | 12.20 | 11 | |
| CAPACITY (MIGD): ( .770) | | ( .596 ) | S S : 45.00 | 122.00 | S S : 6.30 | 17.08 | 11 | |
| 1000 CUBIC METRES: 3.500 | | 2.711 | T.PHOS: 3.40 | 9.22 | T.PHOS: 2.04 | 5.53 | 11 | |
| EXTENDED AERATION | | | | | | | | |
| | | | WATERCOURSE: LAKE HURON | | | | | |
| BRUCE MINES *MIN* 110001756 | | | | | | | | |
| TOWN | | | | | | | | |
| BRUCE MINES LAGOON | 525 | | B O D: 67.00 | 23.79 | B O D: 11.00 | 3.91 | 2 | |
| CAPACITY (MIGD): ( .063) | | ( .078 ) | S S : 53.00 | 18.82 | S S : 11.10 | 3.94 | 2 | |
| 1000 CUBIC METRES: .286 | | .355 | T.PHOS: 4.40 | 1.56 | T.PHOS: 1.35 | 0.48 | 2 | |
| CONVENTIONAL LAGOON SEASONAL | | | | | | | | |
| | | | WATERCOURSE: ST.JOSEPH CHL.TO L.HURON | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|
| BURKS FALLS *MIN* 110001426<br>VILLAGE<br>BURKS FALLS LAGOON<br>CAPACITY (MIGD): ( .150)<br>1000 CUBIC METRES: .682<br>CONVENTIONAL LAGOON SEASONAL | 800 | ( .080 )<br>.365 | B O D: | 69.00 | 25.19 | 9.20 | 3.36 | 2 | | |
| | | | S S : | 73.00 | 26.65 | 9.50 | 3.47 | 2 | | |
| | | | T.PHOS: | 4.20 | 1.53 | 1.37 | 0.50 | 2 | | |
| WATERCOURSE: MAGNETAWAN RIVER | | | | | | | | | | |
| CALDWELL (VERNER) *MIN* 110001872<br>TOWNSHIP<br>VERNER LAGOON<br>CAPACITY (MIGD): ( .105)<br>1000 CUBIC METRES: .477<br>CONVENTIONAL LAGOON SEASONAL<br>PHOSPHORUS REMOVAL - BATCH | 1116 | ( .107 )<br>.485 | B O D: | 107.00 | 51.90 | 11.60 | 5.63 | 6 | | |
| | | | S S : | 137.00 | 66.45 | 12.80 | 6.21 | 6 | | |
| | | | T.PHOS: | 4.50 | 2.18 | 1.08 | 0.52 | 6 | 3 | |
| WATERCOURSE: VEUVE RIVER<br>REMEDIAL MEASURE: MONITOR T.PHOS CLOSELY | | | | | | | | | | |
| CAPREOL 120001210<br>TOWN<br>CAPREOL LAGOON<br>CAPACITY (MIGD): ( .340)<br>1000 CUBIC METRES: 1.546<br>EXFILTRATION LAGOON | 2949 | ( .935 )<br>4.249 | B O D: | 54.00 | 229.45 | 0.00 | 0.00 | | | |
| | | | S S : | 57.00 | 242.19 | 0.00 | 0.00 | | | |
| | | | T.PHOS: | 2.50 | 10.62 | 0.00 | 0.00 | | | |
| WATERCOURSE: NO DISC TO SURFACE WATER | | | | | | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| CASIMIR J.A.(ST CHARLES) *MIN*<br>110002256 | | | | | | | | | |
| TOWNSHIP | 280 | | | B O D: 160.00 | 44.48 | B O D: 8.70 | 2.42 | 1 | |
| ST.CHARLES LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .120) | ( | .061 ) | S S : 179.00 | 49.76 | S S : 9.80 | 2.72 | 1 | |
| 1000 CUBIC METRES: | .546 | | .278 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 7.20 | 2.00 | T.PHOS: 0.80 | 0.22 | 1 | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | |
| | | | | WATERCOURSE: MCPHERSON CREEK W.BRANCH | | | | | |
| CHAPLEAU<br>120001167 | | | | | | | | | |
| TOWNSHIP | 2800 | | | B O D: 21.40 | | B O D: 21.60 | | 1 | |
| CHAPLEAU WPCP PHASED OUT 1986 | | | | | | | | | |
| CAPACITY (MIGD): | ( .400) | ( | ) | S S : 0.00 | | S S : 0.00 | | | |
| 1000 CUBIC METRES: | 1.818 | | | | | | | | |
| PRIMARY | | | | T.PHOS: 2.20 | | T.PHOS: 2.25 | | 1 | |
| | | | | WATERCOURSE: CHAPLEAU LAKE | | | | | |
| COCHRANE **<br>120000355 | | | | | | | | | |
| TOWN | 4600 | | | B O D: 96.00 | 350.59 | B O D: 22.65 | 82.72 | 3 | 2 |
| COCHRANE WPCP | | | | | | | | | |
| CAPACITY (MIGD): | ( .750) | ( | .803 ) | S S : 121.60 | 444.08 | S S : 44.20 | 161.42 | 3 | 3 |
| 1000 CUBIC METRES: | 3.410 | | 3.652 | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 6.80 | 24.83 | T.PHOS: 2.90 | 10.59 | 3 | |
| EFFLUENT POLISHING | | | | | | | | | |
| | | | | WATERCOURSE: LILLABELLE LAKE | | | | | |

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| COSBY M.M.(NOELVILLE) *MIN*<br>110002425 | | | | | | | | | |
| TOWNSHIP | 551 | | | | | | | | |
| NOELVILLE LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | | ( .175) | ( .049 ) | B O D: 172.00 | 38.53 | B O D: 6.70 | 1.50 | 1 | |
| 1000 CUBIC METRES: | | .796 | .224 | S S : 200.00 | 44.80 | S S : 12.30 | 2.76 | 1 | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 7.20 | 1.61 | T.PHOS: 0.96 | 0.22 | 1 | |
| | | | | | WATERCOURSE: WOLF RIVER | | | | |
| ELLIOT LAKE(ESTEN L.) ** | | | | | | | | | |
| 120001121 | | | | | | | | | |
| TOWN | 19000 | | | | | | | | |
| ESTEN LAKE WPCP | | | | | | | | | |
| CAPACITY (MIGD): | | ( 2.860) | ( 2.750 ) | B O D: 87.00 | 1,087.50 | B O D: 15.30 | 191.25 | 12 | 2 |
| 1000 CUBIC METRES: | | 13.002 | 12.500 | S S : 117.00 | 1,462.50 | S S : 15.90 | 198.75 | 12 | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 4.80 | 60.00 | T.PHOS: 1.10 | 13.75 | 12 | 7 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| EFFLUENT POLISHING | | | | | | | | | |
| | | | | | WATERCOURSE: ESTEN LAKE | | | | |
| ENGLEHART *MIN* | | | | | | | | | |
| 110000187 | | | | | | | | | |
| TOWN | 1730 | | | | | | | | |
| ENGLEHART LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | | ( .200) | ( .382 ) | B O D: 64.00 | 111.23 | B O D: 18.20 | 31.63 | 10 | 1 |
| 1000 CUBIC METRES: | | .909 | 1.738 | S S : 100.00 | 173.80 | S S : 15.20 | 26.42 | 10 | |
| CONVENTIONAL LAGOON CONTINUOUS | | | | T.PHOS: 4.30 | 7.47 | T.PHOS: 2.25 | 3.91 | 9 | |
| | | | | | WATERCOURSE: ENGLEHART RIVER | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| ESPANOLA *MIN* | | | | | | | | | | |
| 110000212 | | | | | | | | | | |
| TOWN | 5200 | | | B O D: 103.00 | 307.25 | | B O D: 55.40 | 165.26 | 12 | 2 |
| ESPANOLA WPCP | | | | | | | | | | |
| CAPACITY (MIGD): | ( .660) | ( | .656 ) | S S : 127.00 | 378.84 | | S S : 51.20 | 152.73 | 12 | 4 |
| 1000 CUBIC METRES: | 3.000 | | 2.983 | | | | | | | |
| PRIMARY | | | | T.PHOS: 5.70 | 17.00 | | T.PHOS: 4.55 | 13.57 | 12 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | WATERCOURSE: SPANISH RIVER | | | | | | |
| GORE BAY *MIN* | | | | | | | | | | |
| 110002513 | | | | | | | | | | |
| TOWN | 780 | | | B O D: 312.00 | 132.91 | | B O D: 8.90 | 3.79 | 2 | |
| GORE BAY LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | ( .139) | ( | .094 ) | S S : 872.00 | 371.47 | | S S : 44.30 | 18.87 | 2 | 1 |
| 1000 CUBIC METRES: | .632 | | .426 | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 6.90 | 2.94 | | T.PHOS: 1.58 | 0.67 | 2 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | WATERCOURSE: LAKE HURON | | | | | | |
| HAILEYBURY (N.COBALT) *MIN* | | | | | | | | | | |
| 110001382 | | | | | | | | | | |
| TOWN | 800 | | | B O D: 115.00 | 64.86 | | B O D: 10.00 | 5.64 | 2 | |
| NORTH COBALT LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | ( .075) | ( | .124 ) | S S : 127.00 | 71.63 | | S S : 18.60 | 10.49 | 2 | |
| 1000 CUBIC METRES: | .341 | | .564 | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 6.10 | 3.44 | | T.PHOS: 3.02 | 1.70 | 2 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | WATERCOURSE: FARR CREEK | | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| HAILEYBURY NEW *MIN* 110002158 | | | | | | | | |
| TOWN | 0 | | B O D: 111.00 | 130.98 | B O D: 20.60 | 24.31 | 2 | |
| LAKE TEMISKAMING NEW WPCP | | | | | | | | |
| CAPACITY (MIGD): | ( .354) | ( .260 ) | S S : 82.00 | 96.76 | S S : 31.60 | 37.29 | 2 | 1 |
| 1000 CUBIC METRES: | 1.609 | 1.180 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 4.50 | 5.31 | T.PHOS: 1.84 | 2.17 | 2 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| HAILEYBURY OLD *MIN* 110000310 | | | | | | | | |
| TOWN | 3240 | | B O D: 128.00 | 165.76 | B O D: 40.70 | 52.71 | 10 | 6 |
| LAKE TEMISKAMING OLD WPCP | | | | | | | | |
| CAPACITY (MIGD): | ( .350) | ( .285 ) | S S : 128.00 | 165.76 | S S : 66.20 | 85.73 | 10 | 8 |
| 1000 CUBIC METRES: | 1.591 | 1.295 | | | | | | |
| CONTACT STABILIZATION | | | T.PHOS: 6.10 | 7.90 | T.PHOS: 2.45 | 3.17 | 10 | |
| HEARST *MIN* 110000338 | | | | | | | | |
| TOWN | 5270 | | B O D: 171.00 | 480.68 | B O D: 16.50 | 46.38 | 2 | |
| HEARST LAGOON | | | | | | | | |
| CAPACITY (MIGD): | ( 1.500) | ( .618 ) | S S : 188.00 | 528.47 | S S : 64.60 | 181.59 | 2 | 2 |
| 1000 CUBIC METRES: | 6.819 | 2.811 | | | | | | |
| AERATED CELL PLUS LAGOON | | | T.PHOS: 6.60 | 18.55 | T.PHOS: 1.62 | 4.55 | 2 | |
| CONTINUOUS DISCHARGE | | | | | | | | |

PLANT START-UP NOV. 1985

WATERCOURSE: LAKE TEMISKAMING

WATERCOURSE: LAKE TIMISKAMING

REMEDIAL MEASURE: EXPANSION/UPGRADING

WATERCOURSE: MATTAWISHKWIA RIVER

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|
| HORNEPAYNE *MIN* 110001952 | | | | | | | | | | |
| TOWNSHIP | 1675 | | | | | | | | | |
| HORNEPAYNE WPCP | | | | B O D: | 66.00 | 55.51 | B O D: | 2.20 | 1.85 | 11 |
| CAPACITY (MIGD): | ( .300) | ( .185 ) | | | | | | | | |
| 1000 CUBIC METRES: | 1.364 | .841 | | S S : | 100.00 | 84.10 | S S : | 6.30 | 5.30 | 11 |
| EXTENDED AERATION | | | | T.PHOS: | 3.80 | 3.20 | T.PHOS: | 2.65 | 2.23 | 11 |
| | | | | WATERCOURSE: JACKFISH RIVER | | | | | | |
| IROQUOIS FALLS *MIN* 110002121 | | | | | | | | | | |
| TOWN | 5575 | | | | | | | | | |
| IROQUOIS FALLS WPCP | | | | B O D: | 49.00 | 182.18 | B O D: | 17.60 | 65.44 | 12 1 |
| CAPACITY (MIGD): | ( .900) | ( .818 ) | | | | | | | | |
| 1000 CUBIC METRES: | 4.091 | 3.718 | | S S : | 87.00 | 323.47 | S S : | 9.30 | 34.58 | 12 |
| CONTACT STABILIZATION | | | | T.PHOS: | 4.50 | 16.73 | T.PHOS: | 1.93 | 7.18 | 11 |
| | | | | WATERCOURSE: ABITIBI RIVER | | | | | | |
| IROQUOIS FALLS(PORQUIS) 120003290 | | | | | | | | | | |
| TOWN | 153 | | | | | | | | | |
| PORQUIS JUNCTION LAGOON | | | | B O D: | 210.00 | 13.65 | B O D: | 0.00 | 0.00 | |
| CAPACITY (MIGD): | ( .010) | ( .014 ) | | | | | | | | |
| 1000 CUBIC METRES: | .045 | .065 | | S S : | 169.00 | 10.99 | S S : | 0.00 | 0.00 | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: | 7.40 | 0.48 | T.PHOS: | 0.00 | 0.00 | |
| SINGE CELL | | | | WATERCOURSE: STATION CR.TO HEADON CR. | | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | EFFLUENT ANNUAL AVERAGE | | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | | |
| KAPUSKASING *MIN* 110003004 | | | | | | | | |
| TOWN | 12000 | | B O D: 105.00 | 495.18 | B O D: 5.60 | 26.41 | 11 | |
| KAPUSKASING MPCP | | | | | | | | |
| CAPACITY (MIGD): ( 2.000) | | ( 1.038 ) | SS: 111.00 | 523.48 | SS: 7.50 | 35.37 | 12 | |
| 1000 CUBIC METRES: 9.092 | | 4.716 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 4.00 | 18.86 | T.PHOS: 2.02 | 9.53 | 11 | |
| | | | WATERCOURSE: KAPUSKASING RIVER | | | | | |
| KAPUSKASING (BRUNETV.) 120003012 | | | | | | | | |
| TOWN | 2100 | | B O D: 436.00 | 274.68 | B O D: 30.00 | 18.90 | 7 | 4 |
| BRUNETVILLE LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .400) | | ( .139 ) | SS: 275.60 | 173.63 | SS: 75.80 | 47.75 | 7 | 3 |
| 1000 CUBIC METRES: 1.818 | | .630 | | | | | | |
| CONVENTIONAL LAGOON CONTINUOUS | | | T.PHOS: 8.40 | 5.29 | T.PHOS: 2.80 | 1.76 | 7 | |
| | | | WATERCOURSE: (KAPUSKASING MPCP) | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | |
| KAPUSKASING (VAL ALBERT) 120003003 | | | | | | | | |
| TOWN | 2100 | | B O D: 0.00 | 0.00 | B O D: 0.00 | 0.00 | | |
| VAL ALBERT LAGOON (PHASED OUT 28.1.'85) | | | | | | | | |
| CAPACITY (MIGD): ( .400) | | ( .056 ) | SS: 0.00 | 0.00 | SS: 0.00 | 0.00 | | |
| 1000 CUBIC METRES: 1.818 | | .254 | | | | | | |
| CONVENTIONAL LAGOON CONTINUOUS | | | T.PHOS: 0.00 | 0.00 | T.PHOS: 0.00 | 0.00 | | |
| | | | WATERCOURSE: (KAPUSKASING MPCP) | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| KIRKLAND LAKE *MIN* 120000015 | | | | | | | | |
| TOWN | | | | | | | | |
| KIRKLAND LAKE MPCP | 12500 | | B O D: 63.00 | 691.30 | B O D: 16.70 | 183.25 | 11 | 1 |
| CAPACITY (MIGD): ( 3.000) | | ( 2.414 ) | S S : 102.00 | 1,119.25 | S S : 15.60 | 171.18 | 12 | 1 |
| 1000 CUBIC METRES: 13.638 | | 10.973 | T.PHOS: 3.50 | 38.41 | T.PHOS: 1.05 | 11.52 | 12 | 6 |
| CONTACT STABILIZATION | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: MURDOCK CREEK | | | | | |
| | | | REMEDIAL MEASURE: COLLECTION SYSTEM UPGRADING | | | | | |
| KIRKLAND LAKE (SHASTIKA) | | | | | | | | |
| TOWN 120001648 | | | | | | | | |
| SHASTIKA | 650 | | B O D: 38.00 | 0.00 | B O D: 23.50 | 0.00 | 10 | 6 |
| CAPACITY (MIGD): ( .065) | | ( .000 ) | S S : 59.00 | 0.00 | S S : 18.70 | 0.00 | 10 | 5 |
| 1000 CUBIC METRES: .295 | | .000 | T.PHOS: 9.80 | 0.00 | T.PHOS: 5.73 | 0.00 | 10 | |
| COMMUNAL SEPTIC TANK | | | | | | | | |
| | | | WATERCOURSE: BLANCHE RIVER | | | | | |
| LARDER LAKE | | | | | | | | |
| TOWNSHIP 120000033 | | | | | | | | |
| LARDER LAKE TOWNSITE MPCP | 1100 | | B O D: 178.00 | | B O D: 0.00 | | | 750 |
| CAPACITY (MIGD): ( .130) | | ( ) | S S : 174.00 | | S S : 0.00 | | 5 | 20 |
| 1000 CUBIC METRES: .591 | | | T.PHOS: 5.70 | | T.PHOS: 0.00 | | | |
| PRIMARY | | | | | | | | |
| | | | WATERCOURSE: LARDER LAKE | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | | EFFLUENT ANNUAL AVERAGE | | | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CONC. (MG/L) | LOADING KG/DAY | | CONC. (MG/L) | LOADING KG/DAY | | |
| LATCHFORD *MIN* 110001774 | | | | | | | | | | |
| TOWN | 427 | | B O D: | 90.00 | 28.80 | B O D: | 5.50 | 1.76 | 12 | |
| LATCHFORD WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( .075) | | ( .070 ) | S S : | 161.00 | 51.52 | S S : | 21.10 | 6.75 | 12 | 3 |
| 1000 CUBIC METRES: .341 | | .320 | | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: | 5.70 | 1.82 | T.PHOS: | 1.09 | 0.35 | 12 | |
| | | | WATERCOURSE: MONTREAL RIVER | | | | | | | |
| LITTLE CURRENT *MIN* 110000392 | | | | | | | | | | |
| TOWN | 1500 | | B O D: | 15.00 | 11.76 | B O D: | 8.70 | 6.82 | 3 | |
| LITTLE CURRENT LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .204) | | ( .172 ) | S S : | 22.00 | 17.25 | S S : | 14.80 | 11.60 | 3 | |
| 1000 CUBIC METRES: .927 | | .784 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: | 1.70 | 1.33 | T.PHOS: | 2.42 | 1.90 | 3 | |
| | | | WATERCOURSE: DITCH TO GEORGIAN BAY | | | | | | | |
| MATTAWA *MIN* 110000436 | | | | | | | | | | |
| TOWN | 2686 | | B O D: | 89.00 | 104.93 | B O D: | 13.10 | 15.44 | 1 | |
| MATTAWA LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .240) | | ( .259 ) | S S : | 53.00 | 62.49 | S S : | 24.60 | 29.00 | 1 | |
| 1000 CUBIC METRES: 1.091 | | 1.179 | | | | | | | | |
| EXFILTRATION LAGOON | | | T.PHOS: | 4.00 | 4.72 | T.PHOS: | 1.04 | 1.23 | 1 | |
| | | | WATERCOURSE: MATTAWA RIVER | | | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE # OF DATA | COMPLIANCE # MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| MCGARRY (VIRGINIATOWN)<br>120000024 | | | | | | | | |
| TOWNSHIP | 1000 | | BOD: 27.00 | | BOD: 25.70 | | 7 | 5 |
| VIRGINIATOWN AND KEARNS WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .160) | | ( ) | SS: 33.00 | | SS: 28.80 | | 7 | 7 |
| 1000 CUBIC METRES: .727 | | | | | | | | |
| COMMUNAL SEPTIC TANK | | | T.PHOS: 1.80 | | T.PHOS: 1.70 | | 7 | |
| | | | | | | | | |
| | | | WATERCOURSE: TAILING PD TO LARDER L. | | | | | |
| MICHIPICOTEN (WAWA) *MIN*<br>110000454 | | | | | | | | |
| TOWNSHIP | 3800 | | BOD: 22.00 | 26.93 | BOD: 10.40 | 12.73 | 3 | |
| WAWA LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .400) | | ( .269 ) | SS: 43.00 | 52.63 | SS: 14.50 | 17.75 | 3 | |
| 1000 CUBIC METRES: 1.818 | | 1.224 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 2.40 | 2.94 | T.PHOS: 1.90 | 2.33 | 3 | |
| | | | | | | | | |
| | | | WATERCOURSE: MAGPIE RIVER | | | | | |
| HOONBEAM *MIN*<br>110000230 | | | | | | | | |
| TOWNSHIP | 1000 | | BOD: 175.00 | 76.83 | BOD: 10.10 | 4.43 | 2 | |
| HOONBEAM LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .143) | | ( .097 ) | SS: 282.00 | 123.80 | SS: 13.80 | 6.06 | 2 | |
| 1000 CUBIC METRES: .650 | | .439 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 7.30 | 3.20 | T.PHOS: 1.24 | 0.54 | 2 | |
| | | | | | | | | |
| | | | WATERCOURSE: CREEK SYS TO GROUNDHOG R | | | | | |

## 1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| MOOSONEE (NORTH) *MIN* | | | | | | | | | |
| 120000319 | | | | | | | | | |
| DEVELOPMENT AREA BOARD | 300 | | | B O D: 57.00 | 11.86 | B O D: 13.50 | 2.81 | 10 | 2 |
| MOOSONEE WPCP (NORTH) | | | | | | | | | |
| CAPACITY (MIGD): | ( .055) | ( | .046 ) | S S : 107.00 | 22.26 | S S : 26.30 | 5.47 | 10 | 4 |
| 1000 CUBIC METRES: | .250 | | .208 | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 3.60 | 0.75 | T.PHOS: 0.84 | 0.17 | 10 | |
| | | | | | WATERCOURSE: MOOSE RIVER | | | | |
| MOOSONEE (OLD TOWNSITE) *MIN* | | | | | | | | | |
| 110001060 | | | | | | | | | |
| DEVELOPMENT AREA BOARD | 1200 | | | B O D: 93.00 | 55.89 | B O D: 15.00 | 9.02 | 10 | 1 |
| MOOSONEE WPCP (OLD TOWNSITE) | | | | | | | | | |
| CAPACITY (MIGD): | ( .112) | ( | .132 ) | S S : 139.00 | 83.54 | S S : 21.20 | 12.74 | 10 | 3 |
| 1000 CUBIC METRES: | .509 | | .601 | | | | | | |
| CONTACT STABILIZATION | | | | T.PHOS: 3.70 | 2.22 | T.PHOS: 1.21 | 0.73 | 9 | |
| | | | | | WATERCOURSE: STORE CK TO MOOSE RIVER | | | | |
| | | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | |
| NEW LISKEARD *MIN* | | | | | | | | | |
| 110000515 | | | | | | | | | |
| TOWN | 6513 | | | B O D: 96.00 | 343.10 | B O D: 23.50 | 83.99 | 12 | 3 |
| NEW LISKEARD LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .637) | ( | .786 ) | S S : 124.00 | 443.18 | S S : 28.90 | 103.29 | 12 | 1 |
| 1000 CUBIC METRES: | 2.896 | | 3.574 | | | | | | |
| CONVENTIONAL LAGOON CONTINUOUS | | | | T.PHOS: 4.90 | 17.51 | T.PHOS: 3.13 | 11.19 | 12 | |
| | | | | | WATERCOURSE: WABI RIVER | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EFFLUENT EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| **NICKEL CENTRE (CONISTON)** | | | | | | | | | |
| TOWN 110000123 | | | | | | | | | |
| CONISTON WPCP | 2790 | | | | | | | | |
| CAPACITY (MIGD): | | ( .299) | ( .356 ) | B O D: 110.00 | 177.76 | B O D: 8.20 | 13.25 | 12 | |
| 1000 CUBIC METRES: | | 1.359 | 1.616 | S S : 132.00 | 213.31 | S S : 12.40 | 20.04 | 12 | 1 |
| OXIDATION DITCH | | | | T.PHOS: 4.90 | 7.92 | T.PHOS: 1.67 | 2.70 | 12 | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | | | | | | |
| WATERCOURSE: CONISTON CREEK | | | | | | | | | |
| **NICKEL CENTRE (FALCONBR)** | | | | | | | | | |
| TOWN 120001158 | | | | | | | | | |
| FALCONBRIDGE TOWNSITE WPCP | 836 | | | | | | | | |
| CAPACITY (MIGD): | | ( .100) | ( .257 ) | B O D: 95.00 | 111.15 | B O D: 27.50 | 32.18 | | |
| 1000 CUBIC METRES: | | .455 | 1.170 | S S : 120.00 | 140.40 | S S : 25.90 | 30.30 | | |
| TRICKLING FILTER | | | | T.PHOS: 4.70 | 5.50 | T.PHOS: 2.67 | 3.12 | | |
| WATERCOURSE: BOUCHER L TO CONISTON CR | | | | | | | | | |
| **NICKEL CENTRE (GARSON)** | | | | | | | | | |
| TOWN 120004887 | | | | | | | | | |
| GARSON LAGOON (STANDBY) | 4107 | | | | | | | | |
| CAPACITY (MIGD): | | ( .760) | ( .326 ) | B O D: 0.00 | 0.00 | B O D: 0.00 | 0.00 | | |
| 1000 CUBIC METRES: | | 3.455 | 1.481 | S S : 0.00 | 0.00 | S S : 0.00 | 0.00 | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 0.00 | 0.00 | T.PHOS: 0.00 | 0.00 | | |
| WATERCOURSE: FLOW TO SUDBURY WPCP | | | | | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| NICKEL CENTRE (WAHNAPIT) | | | | | | | | | | |
| 120003156 | | | | | | | | | | |
| TOWN | 2020 | | | B O D: 29.00 | 17.63 | | B O D: 4.70 | 2.86 | 2 | |
| WAHNAPITAE LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .293) | | ( .134 ) | | S S : 29.00 | 17.63 | | S S : 6.80 | 4.13 | 2 | |
| 1000 CUBIC METRES: 1.332 | | .608 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 1.20 | 0.73 | | T.PHOS: 0.12 | 0.07 | 2 | |
| | | | | WATERCOURSE: WANAPITEI RIVER | | | | | | |
| NORTH BAY *MIN* | | | | | | | | | | |
| 110000533 | | | | | | | | | | |
| CITY | 48000 | | | B O D: 180.00 | 7,212.78 | | B O D: 22.00 | 881.56 | 12 | 3 |
| NORTH BAY WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( 8.000) | | ( 8.816 ) | | S S : 377.00 | 15,106.77 | | S S : 31.40 | 1,258.23 | 12 | 9 |
| 1000 CUBIC METRES: 36.368 | | 40.071 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS | | | | T.PHOS: 11.50 | 460.82 | | T.PHOS: 1.68 | 67.32 | 12 | 12 |
| | | | | WATERCOURSE: LAKE NIPISSING | | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | |
| NORTH HIMSWORTH (CALL) *MIN* | | | | | | | | | | |
| 110001747 | | | | | | | | | | |
| TOWNSHIP | 1220 | | | B O D: 122.00 | 94.55 | | B O D: 2.90 | 2.25 | 2 | |
| CALLANDER LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): ( .105) | | ( .171 ) | | S S : 111.00 | 86.03 | | S S : 6.70 | 5.19 | 2 | |
| 1000 CUBIC METRES: .477 | | .775 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH | | | | T.PHOS: 5.00 | 3.88 | | T.PHOS: 0.56 | 0.43 | 2 | |
| | | | | WATERCOURSE: DITCH TO CALLANDER BAY | | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| **ONAPING FALLS (DOWLING)** 110003077 | | | | | | | | | | |
| TOWN | 2090 | | | B O D: 52.00 | 96.15 | | B O D: 7.60 | 14.05 | 12 | |
| DOWLING WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( .459) | | ( .407 ) | | S S : 52.00 | 96.15 | | S S : 6.20 | 11.46 | 12 | |
| 1000 CUBIC METRES: 2.087 | | 1.849 | | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 3.80 | 7.03 | | T.PHOS: 1.77 | 3.27 | 11 | |
| | | | | | | | | | | |
| | | | | | WATERCOURSE: ONAPING RIVER | | | | | |
| **ONAPING FALLS (LEVACK)** 120001194 | | | | | | | | | | |
| TOWN | 2008 | | | B O D: 81.00 | 110.08 | | B O D: 4.50 | 6.12 | 12 | |
| LEVACK WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( .349) | | ( .299 ) | | S S : 88.00 | 119.59 | | S S : 3.60 | 4.89 | 12 | |
| 1000 CUBIC METRES: 1.587 | | 1.359 | | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 3.90 | 5.30 | | T.PHOS: 1.85 | 2.51 | 12 | |
| | | | | | | | | | | |
| | | | | | WATERCOURSE: ONAPING RIVER | | | | | |
| **ONAPING FALLS (ONAPING)** 120001149 | | | | | | | | | | |
| TOWN | 964 | | | B O D: 65.00 | 39.39 | | B O D: 9.50 | 5.76 | 12 | |
| ONAPING WPCP | | | | | | | | | | |
| CAPACITY (MIGD): ( .150) | | ( .133 ) | | S S : 70.00 | 42.42 | | S S : 11.40 | 6.91 | 12 | |
| 1000 CUBIC METRES: .682 | | .606 | | | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | | T.PHOS: 4.70 | 2.85 | | T.PHOS: 2.75 | 1.67 | 12 | |
| | | | | | | | | | | |
| | | | | | WATERCOURSE: SWAMP TO ONAPING RIVER | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | INFLUENT<br>LOADING KG/DAY | EFFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | EFFLUENT<br>LOADING KG/DAY | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | COMPLIANCE<br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| OPASATIKA *MIN* 120000658 | | | | | | | | |
| TOWNSHIP | 600 | | B O D: 0.00 | | B O D: 0.00 | | | |
| OPASATIKA LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .400) | | ( ) | S S : 0.00 | | S S : 0.00 | | | |
| 1000 CUBIC METRES: 1.818 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 0.00 | | T.PHOS: 0.00 | | | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | |
| | | | WATERCOURSE: OPASATIKA RIVER | | | | | |
| PARRY SOUND *MIN* 110000560 | | | | | | | | |
| TOWN | 5500 | | B O D: 86.00 | 338.50 | B O D: 6.50 | 25.58 | 12 | |
| PARRY SOUND WPCP | | | | | | | | |
| CAPACITY (MIGD): ( 1.450) | | ( .866 ) | S S : 101.00 | 397.54 | S S : 5.70 | 22.44 | 12 | |
| 1000 CUBIC METRES: 6.592 | | 3.936 | | | | | | |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: 3.00 | 11.81 | T.PHOS: 0.55 | 2.16 | 12 | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: MC CURRY LAKE | | | | | |
| PONASSAN *MIN* 110000613 | | | | | | | | |
| TOWN | 1100 | | B O D: 87.00 | 83.52 | B O D: 8.40 | 8.06 | 2 | |
| PONASSAN LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .186) | | ( .211 ) | S S : 101.00 | 96.96 | S S : 12.60 | 12.10 | 2 | |
| 1000 CUBIC METRES: .846 | | .960 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 2.80 | 2.69 | T.PHOS: 0.80 | 0.77 | 2 | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | |
| REGULATED DISCHARGE VOLUME | | | | | | | | |
| | | | WATERCOURSE: GENESEE CREEK | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE # MONTHS OF EFFLUENT DATA | COMPLIANCE # MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RATTER & DUNNET (WARREN) *MIN*<br>110001916 | | | | | | | | | | | |
| TOWNSHIP | 612 | | | B O D: | 82.00 | 22.80 | B O D: | 1.30 | 0.36 | 1 | |
| WARREN LAGOON | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .150) | ( | .061 ) | S S : | 120.00 | 33.36 | S S : | 2.50 | 0.70 | 1 | |
| 1000 CUBIC METRES: | .682 | | .278 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: | 4.40 | 1.22 | T.PHOS: | 0.44 | 0.12 | 1 | |
| PHOSPHORUS REMOVAL - BATCH | | | | | | | | | | | |
| | | | | WATERCOURSE: VEUVE RIVER | | | | | | | |
| RAYSIDE-BALFOUR (AZILDA)<br>110001783 | | | | | | | | | | | |
| TOWN | 4373 | | | B O D: | 108.00 | 198.29 | B O D: | 3.90 | 7.16 | 12 | |
| AZILDA WPCP | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .625) | ( | .404 ) | S S : | 93.00 | 170.75 | S S : | 5.20 | 9.55 | 12 | |
| 1000 CUBIC METRES: | 2.841 | | 1.836 | | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: | 4.60 | 8.45 | T.PHOS: | 1.21 | 2.22 | 12 | 4 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | | |
| | | | | WATERCOURSE: WHITSON CREEK | | | | | | | |
| RAYSIDE-BALFOUR (CHELMS)<br>120001176 | | | | | | | | | | | |
| TOWN | 8162 | | | B O D: | 89.00 | 165.18 | B O D: | 24.70 | 45.84 | 5 | 2 |
| CHELMSFORD LAGOON | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .181) | ( | .408 ) | S S : | 94.00 | 174.46 | S S : | 34.50 | 64.03 | 5 | 1 |
| 1000 CUBIC METRES: | .823 | | 1.856 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: | 4.60 | 8.54 | T.PHOS: | 2.63 | 4.88 | 5 | |
| | | | | WATERCOURSE: MCKENZIE CREEK | | | | | | | |

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| RAYSIDE-BALFOUR (CHELMS)<br>120001568 | | | | | | | | | |
| TOWN | 4934 | | B O D: | 90.00 | 337.59 | 5.20 | 19.51 | 12 | |
| CHELMSFORD WPCP | | | | | | | | | |
| CAPACITY (MIGD): ( 1.250) | | ( .825 ) | S S : | 122.00 | 457.62 | 5.50 | 20.63 | 12 | |
| 1000 CUBIC METRES: 5.683 | | 3.751 | | | | | | | |
| EXTENDED AERATION | | | T.PHOS: | 3.80 | 14.25 | 0.69 | 2.59 | 12 | 3 |
| CONTACT STABILIZATION | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | |
| | | | WATERCOURSE: WHITSON RIVER | | | | | | |
| SAULT STE.MARIE *MIN*<br>110000640 | | | | | | | | | |
| CITY | 75000 | | B O D: | 137.00 | 6,888.22 | 83.20 | 4,183.21 | 12 | 4 |
| SAULT STE.MARIE WPCP | | | | | | | | | |
| CAPACITY (MIGD): ( 12.000) | | ( 11.061 ) | S S : | 160.00 | 8,044.64 | 59.90 | 3,011.71 | 12 | |
| 1000 CUBIC METRES: 54.552 | | 50.279 | | | | | | | |
| PRIMARY | | | T.PHOS: | 5.00 | 251.40 | 4.23 | 212.68 | 12 | |
| | | | WATERCOURSE: ST. MARY'S RIVER | | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | |
| SHACKLETON & MACHIN *MIN*<br>110001792 | | | | | | | | | |
| TOWNSHIP | 650 | | B O D: | 158.00 | 89.90 | 8.80 | 5.01 | 2 | |
| FAUQUIER LAGOON | | | | | | | | | |
| CAPACITY (MIGD): ( .060) | | ( .125 ) | S S : | 361.00 | 205.41 | 21.00 | 11.95 | 2 | |
| 1000 CUBIC METRES: .273 | | .569 | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: | 4.30 | 2.45 | 1.16 | 0.66 | 2 | |
| | | | WATERCOURSE: GROUNDHOG RIVER | | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EFFLUENT EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|
| **SMOOTH ROCK FALLS** | | | | | | | | | |
| TOWN 110002130 | | | | | | | | | |
| SMOOTH ROCK FALLS WPCP | 2251 | | | | | | | | |
| CAPACITY (MIGD): | ( .360) | ( .411 ) | B O D: | 57.00 | 106.59 | B O D: | 6.10 | 11.41 | 12 |
| 1000 CUBIC METRES: | 1.637 | 1.870 | S S : | 50.00 | 93.50 | S S : | 6.00 | 11.22 | 12 |
| EXTENDED AERATION | | | T.PHOS: | 3.20 | 5.98 | T.PHOS: | 1.87 | 3.50 | 12 |
| | | | WATERCOURSE: MATTAGAMI RIVER | | | | | | |
| **STURGEON FALLS** | | | | | | | | | |
| TOWN 110001435 | | | | | | | | | |
| STURGEON FALLS WPCP | 6040 | | | | | | | | |
| CAPACITY (MIGD): | ( 1.000) | ( 1.228 ) | B O D: | 70.00 | 390.60 | B O D: | 4.50 | 25.11 | 12 |
| 1000 CUBIC METRES: | 4.546 | 5.580 | S S : | 85.00 | 474.30 | S S : | 5.90 | 32.92 | 12 |
| CONVENTIONAL ACTIVATED SLUDGE | | | T.PHOS: | 3.20 | 17.86 | T.PHOS: | 0.49 | 2.73 | 11 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | WATERCOURSE: STURGEON RIVER | | | | | | |
| **SUDBURY** | | | | | | | | | |
| CITY 110000711 | | | | | | | | | |
| SUDBURY WPCP | 95000 | | | | | | | | |
| CAPACITY (MIGD): | ( 15.000) | ( 11.441 ) | B O D: | 88.00 | 4,576.44 | B O D: | 11.80 | 613.66 | 12 |
| 1000 CUBIC METRES: | 68.190 | 52.005 | S S : | 109.00 | 5,668.55 | S S : | 8.30 | 431.64 | 12 |
| HIGH RATE | | | T.PHOS: | 4.20 | 218.42 | T.PHOS: | 2.10 | 109.21 | 12 |
| | | | WATERCOURSE: JUNCTION CREEK | | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SUNDRIDGE *MIN* 110001961 | | | | | | | | | | | |
| VILLAGE | 740 | | | B O D: 53.00 | 42.03 | B O D: | 2.70 | 2.14 | 3 | | |
| SUNRIDGE LAGOON | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .144) | ( | .174 ) | S S : 44.00 | 34.89 | S S : | 8.40 | 6.66 | 3 | | |
| 1000 CUBIC METRES: | .655 | | .793 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH | | | | T.PHOS: 2.40 | 1.90 | T.PHOS: | 0.56 | 0.44 | 3 | | |
| | | | | | WATERCOURSE: BERNARD CREEK | | | | | | |
| TEMAGAMI *MIN* 110002327 | | | | | | | | | | | |
| TOWNSHIP | 440 | | | B O D: 296.00 | 43.51 | B O D: | 0.00 | 0.00 | | | |
| TEMAGAMI LAGOON | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .025) | ( | .032 ) | S S : 167.00 | 24.55 | S S : | 0.00 | 0.00 | | | |
| 1000 CUBIC METRES: | .114 | | .147 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH | | | | T.PHOS: 10.10 | 1.48 | T.PHOS: | 0.00 | 0.00 | | | |
| | | | | | WATERCOURSE: SNAKE ISLAND LAKE | | | | | | |
| TEMAGAMI (NORTH GOWARD) 120000783 | | | | | | | | | | | |
| TOWNSHIP | 350 | | | B O D: 76.00 | 14.74 | B O D: | 8.40 | 1.63 | 4 | | |
| NORTH GOWARD LAGOON | | | | | | | | | | | |
| CAPACITY (MIGD): | ( .086) | ( | .043 ) | S S : 73.00 | 14.16 | S S : | 18.30 | 3.55 | 4 | | 1 |
| 1000 CUBIC METRES: | .391 | | .194 | | | | | | | | |
| AERATED CELL PLUS LAGOON | | | | T.PHOS: 3.60 | 0.70 | T.PHOS: | 2.14 | 0.42 | 4 | | |
| | | | | | WATERCOURSE: NET LAKE | | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE # OF DATA | COMPLIANCE # MONTHS EFFLUENT EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| THESSALON *MIN* 110002434 | | | | | | | | | |
| TOWN | 1600 | | | B O D: 55.00 | 69.25 | B O D: 12.00 | 15.11 | 2 | |
| THESSALON LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .271) | ( | .277 ) | S S : 48.00 | 60.43 | S S : 11.10 | 13.97 | 2 | |
| 1000 CUBIC METRES: | 1.232 | | 1.259 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 2.50 | 3.15 | T.PHOS: 1.77 | 2.23 | 2 | |
| | | | | | WATERCOURSE: THESSALON RIVER | | | | |
| TIMMINS (BOB'S LAKE) 120000275 | | | | | | | | | |
| CITY | 170 | | | B O D: 95.00 | | B O D: 28.00 | | 5 | 1 |
| BOB'S LAKE LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .017) | ( | ) | S S : 166.00 | | S S : 45.90 | | 5 | 3 |
| 1000 CUBIC METRES: | .077 | | | | | | | | |
| CONVENTIONAL LAGOON CONTINUOUS | | | | T.PHOS: 7.00 | | T.PHOS: 2.43 | | 5 | |
| | | | | | WATERCOURSE: BOB'S CK TO PORCUPINE L. | | | | |
| TIMMINS (MATTAGAMI) 110000766 | | | | | | | | | |
| CITY | 33000 | | | B O D: 114.00 | 2,362.65 | B O D: 30.60 | 634.19 | 11 | 2 |
| MATTAGAMI WPCP | | | | | | | | | |
| CAPACITY (MIGD): | ( 7.500) | ( | 4.560 ) | S S : 162.00 | 3,357.45 | S S : 45.60 | 945.06 | 12 | |
| 1000 CUBIC METRES: | 34.095 | | 20.725 | | | | | | |
| PRIMARY | | | | T.PHOS: 5.30 | 109.84 | T.PHOS: 2.53 | 52.43 | 9 | |
| | | | | | WATERCOURSE: MATTAGAMI RIVER | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | INFLUENT<br>ANNUAL AVERAGE<br>LOADING KG/DAY | | EFFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | EFFLUENT<br>ANNUAL AVERAGE<br>LOADING KG/DAY | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | COMPLIANCE<br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| TIMMINS (WHITNEY&TISDALE<br>110001391<br>CITY<br>WHITNEY & TISDALE WPCP<br>CAPACITY (MIGD): ( 1.500)<br>1000 CUBIC METRES: 6.819<br>EXTENDED AERATION | 7300 | ( 1.146 )<br>5.208 | B O D:<br>S S :<br>T.PHOS: | 104.00<br>111.00<br>4.70 | 541.63<br>578.09<br>24.48 | B O D:<br>S S :<br>T.PHOS: | 8.80<br>8.10<br>2.74 | 45.83<br>42.18<br>14.27 | 10<br>10<br>10 | 1 |
| WATERCOURSE: PORCUPINE RIVER | | | | | | | | | | |
| VAL RITA-HARTY (HARTY)<br>120003316<br>TOWNSHIP<br>HARTY LAGOON<br>CAPACITY (MIGD): ( .500)<br>1000 CUBIC METRES: 2.273<br>CONVENTIONAL LAGOON SEASONAL | 140 | ( ) | B O D:<br>S S :<br>T.PHOS: | 171.00<br>139.00<br>6.00 | | B O D:<br>S S :<br>T.PHOS: | 0.00<br>0.00<br>0.00 | | | |
| WATERCOURSE: NO NAME CREEK | | | | | | | | | | |
| VAL RITA-HARTY (VAL-RITA #MIN#<br>110002318<br>TOWNSHIP<br>VAL-RITA LAGOON<br>CAPACITY (MIGD): ( .125)<br>1000 CUBIC METRES: .568<br>CONVENTIONAL LAGOON SEASONAL | 580 | ( ) | B O D:<br>S S :<br>T.PHOS: | 0.00<br>0.00<br>0.00 | | B O D:<br>S S :<br>T.PHOS: | 0.00<br>0.00<br>0.00 | | | |
| WATERCOURSE: CREEK TO KAPUSKASING R. | | | | | | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | MONTHS OF EFFLUENT DATA | MONTHS EXCEEDED | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VALLEY EAST(HANNER ECT)<br>110001541<br>TOWN<br>HANNER,VAL-CARON,VAL-THERESE WPCP<br>CAPACITY (MIGD): ( 2.500)<br>1000 CUBIC METRES: 11.365<br>CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | 17337 | ( 1.232 )<br>5.601 | | B O D: 106.00<br>S S : 159.00<br>T.PHOS: 5.20 | 593.71<br>890.56<br>29.13 | | B O D: 14.30<br>S S : 5.10<br>T.PHOS: 0.69 | 80.09<br>28.57<br>3.86 | 12<br>12<br>11 | 2 | |
| | | | | WATERCOURSE: VERMILION RIVER | | | | | | | |
| HALDEN (LIVELY)<br>120001185<br>TOWN<br>LIVELY WPCP<br>CAPACITY (MIGD): ( .350)<br>1000 CUBIC METRES: 1.591<br>EXTENDED AERATION | 3669 | ( .260 )<br>1.181 | | B O D: 116.00<br>S S : 144.00<br>T.PHOS: 5.70 | 137.00<br>170.06<br>6.73 | | B O D: 7.50<br>S S : 5.50<br>T.PHOS: 2.30 | 8.86<br>6.50<br>2.72 | 12<br>12<br>12 | | |
| | | | | WATERCOURSE: MEATBIRD CREEK | | | | | | | |
| HALDEN (NIKKOLA)<br>120001531<br>TOWN<br>NIKKOLA WPCP<br>CAPACITY (MIGD): ( .960)<br>1000 CUBIC METRES: 4.364<br>EXTENDED AERATION | 1600 | ( .261 )<br>1.186 | | B O D: 75.00<br>S S : 99.00<br>T.PHOS: 4.60 | 88.95<br>117.41<br>5.46 | | B O D: 3.80<br>S S : 4.30<br>T.PHOS: 2.66 | 4.51<br>5.10<br>3.15 | 12<br>12<br>12 | | |
| | | | | WATERCOURSE: JUNCTION CREEK | | | | | | | |

NORTHEASTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| WEBBWOOD *MIN* 110001881 | | | | | | | | | | |
| TOWN | 460 | | | B O D: 215.00 | 22.15 | | B O D: 13.10 | 1.35 | 1 | |
| WEBBWOOD LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | ( .075) | ( | .023 ) | S S : 113.00 | 11.64 | | S S : 22.00 | 2.27 | 1 | |
| 1000 CUBIC METRES: | .341 | | .103 | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 11.10 | 1.14 | | T.PHOS: 2.49 | 0.26 | 1 | |
| | | | | | | WATERCOURSE: GOUGH CREEK | | | | |

# NORTHEASTERN REGION

## WASTEWATER TREATMENT

# REGIONAL MUNICIPALITIES

| REGIONAL MUNICIPALITIES | CAPACITY | |
|---|---|---|
| | 1000$m^3$ | MIGD |
| SUDBURY. . . . . | 107.4 | 23.6 |

REGIONAL MUNICIPALITY OF SUDBURY

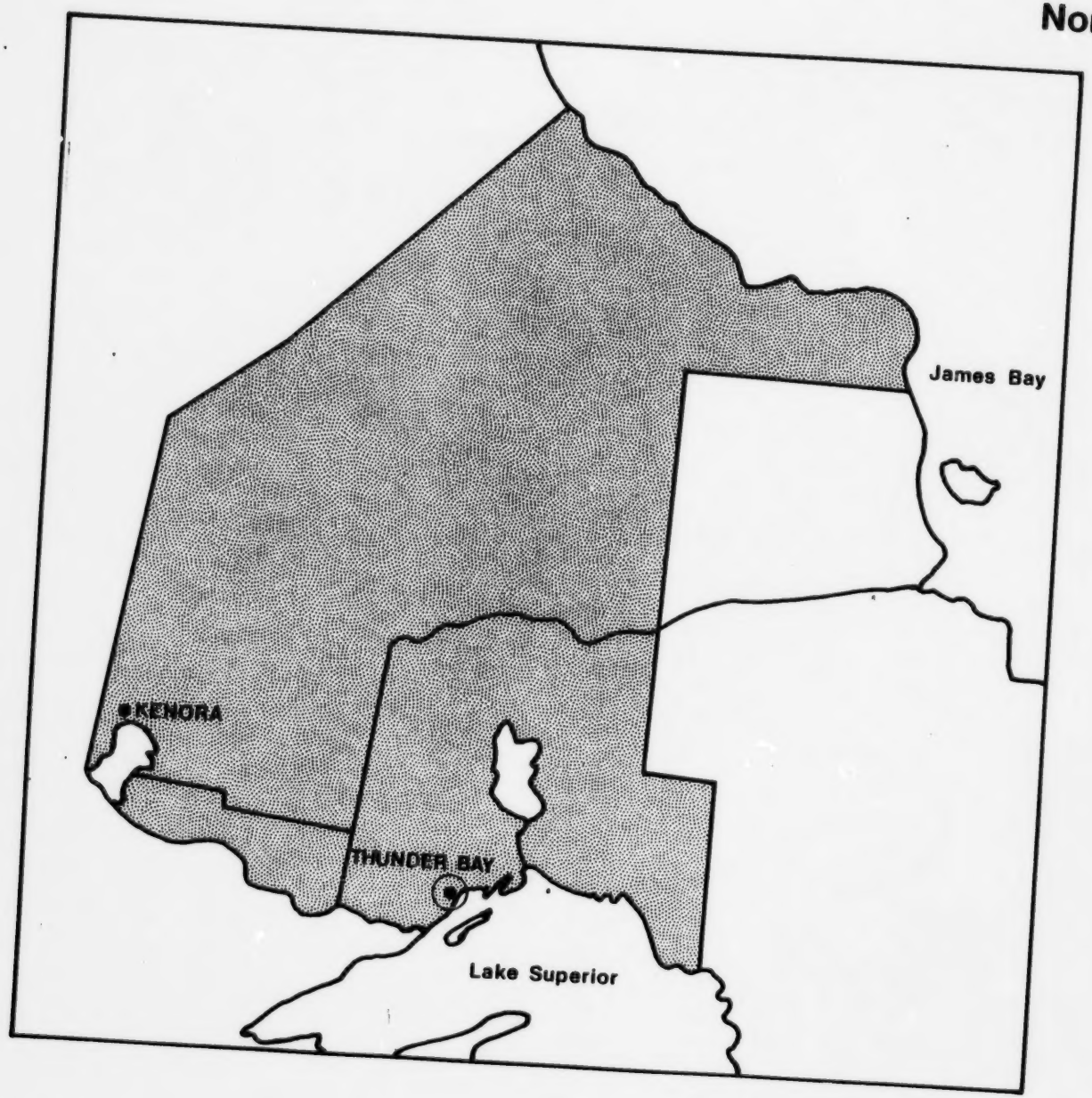
| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD (1000M3) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| CAPREOL<br>TOWN<br>CAPREOL LAGOON<br>120001210 | EXFILTRATION LAGOON | NO DISC TO SURFACE WATER | .340 ( 1.546) | 2949 | MUNICIPALITY |
| NICKEL CENTRE (CONISTON)<br>TOWN<br>CONISTON WPCP<br>110000123 | OXIDATION DITCH<br>CONVENTIONAL ACTIVATED SLUDGE | CONISTON CREEK | .299 ( 1.359) | 2790 | MUNICIPALITY |
| NICKEL CENTRE (FALCONBR)<br>TOWN<br>FALCONBRIDGE TOWNSITE WPCP<br>120001158 | TRICKLING FILTER | BOUCHER L TO CONISTON CR | .100 ( .455) | 836 | MUNICIPALITY |
| NICKEL CENTRE (GARSON)<br>TOWN<br>GARSON LAGOON (STANDBY)<br>120004887 | CONVENTIONAL LAGOON SEASONAL | FLOW TO SUDBURY WPCP | .760 ( 3.455) | 4107 | MUNICIPALITY |
| NICKEL CENTRE (WANAPIT)<br>TOWN<br>WANAPITAE LAGOON<br>120003156 | CONVENTIONAL LAGOON SEASONAL | WANAPITEI RIVER | .293 ( 1.332) | 2020 | MUNICIPALITY |
| ONAPING FALLS (DOWLING)<br>TOWN<br>DOWLING WPCP<br>110003077 | EXTENDED AERATION | ONAPING RIVER | .459 ( 2.087) | 2090 | MUNICIPALITY |
| ONAPING FALLS (LEVACK)<br>TOWN<br>LEVACK WPCP<br>120001194 | EXTENDED AERATION | ONAPING RIVER | .349 ( 1.587) | 2008 | MUNICIPALITY |
| ONAPING FALLS (ONAPING)<br>TOWN<br>ONAPING WPCP<br>120001149 | CONVENTIONAL ACTIVATED SLUDGE | SWAMP TO ONAPING RIVER | .150 ( .682) | 964 | MUNICIPALITY |

REGIONAL MUNICIPALITY OF SUDBURY

| MUNICIPALITY | TREATMENT TYPE | WATERCOURSE/AREA SCHEME SYSTEM | CAPACITY MIGD ($m^3$/d (1000M)) | POPULATION SERVED | OPERATED BY |
|---|---|---|---|---|---|
| RAYSIDE-BALFOUR (AZILDA)<br>TOWN<br>AZILDA WPCP<br>110001783 | EXTENDED AERATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | WHITSON CREEK | .625<br>( 2.841) | 4373 | MUNICIPALITY |
| RAYSIDE-BALFOUR (CHELMS)<br>TOWN<br>CHELMSFORD LAGOON<br>120001176 | CONVENTIONAL LAGOON SEASONAL | MCKENZIE CREEK | .181<br>( .823) | 8162 | MUNICIPALITY |
| RAYSIDE-BALFOUR (CHELMS)<br>TOWN<br>CHELMSFORD WPCP<br>120001568 | EXTENDED AERATION<br>CONTACT STABILIZATION<br>PHOSPHORUS REMOVAL-CONTINUOUS | WHITSON RIVER | 1.250<br>( 5.683) | 4934 | MUNICIPALITY |
| SUDBURY<br>CITY<br>SUDBURY WPCP<br>110000711 | HIGH RATE | JUNCTION CREEK | 15.000<br>( 68.190) | 95000 | MUNICIPALITY |
| VALLEY EAST(HANMER ECT)<br>TOWN<br>HANMER,VAL-CARON,VAL-THERESE WPCP<br>110001541 | CONVENTIONAL ACTIVATED SLUDGE<br>PHOSPHORUS REMOVAL-CONTINUOUS | VERMILION RIVER | 2.500<br>( 11.365) | 17337 | MUNICIPALITY |
| WALDEN (LIVELY)<br>TOWN<br>LIVELY WPCP<br>120001185 | EXTENDED AERATION | HEATBIRD CREEK | .350<br>( 1.591) | 3669 | MUNICIPALITY |
| WALDEN (MIKKOLA)<br>TOWN<br>MIKKOLA WPCP<br>120001531 | EXTENDED AERATION | JUNCTION CREEK | .960<br>( 4.364) | 1600 | MUNICIPALITY |
| | | TOTAL CAPACITY | 23.616<br>( 107.358) | | |

# Northwestern Region ⑥

Ministry of the Environment
Ontario



**REGIONAL OFFICE**

Thunder Bay
435 James St. S.
P.O. Box 5000
P7C 5G8
807 475-1205

**DISTRICT OFFICES**

Kenora
808 Robertson St.
P9N 1X9
807 468-5578

Thunder Bay
435 James St. S.
P.O. Box 5000
P7C 5G8
807 475-1315

## NORTHWESTERN REGION SUMMARY

| TREATMENT TYPE | NUMBER | | | ** CAPACITY MIGD ** ($1000M^3$) | | |
|---|---|---|---|---|---|---|
| | MINISTRY | MUNICIPAL | TOTAL | MINISTRY | MUNICIPAL | TOTAL |
| COMMUNAL SEPTIC TANK | 1 | 2 | 3 | .060 | .430 | .490 |
| | | | | | | ( 2.228) |
| PRIMARY | 1 | 3 | 4 | 2.000 | 24.640 | 26.640 |
| | | | | | | ( 121.105) |
| CONVENTIONAL ACTIVATED SLUDGE | 0 | 1 | 1 | .000 | .500 | .500 |
| | | | | | | ( 2.273) |
| CONTACT STABILIZATION | 1 | 2 | 3 | .515 | 5.500 | 6.015 |
| | | | | | | ( 27.344) |
| EXTENDED AERATION | 10 | 2 | 12 | 4.286 | .133 | 4.419 |
| | | | | | | ( 20.089) |
| CONVENTIONAL LAGOON CONTINUOUS | 0 | 1 | 1 | .000 | .300 | .300 |
| | | | | | | ( 1.364) |
| CONVENTIONAL LAGOON SEASONAL | 3 | 0 | 3 | .447 | .000 | .447 |
| | | | | | | ( 2.032) |
| EXFILTRATION LAGOON | 1 | 0 | 1 | .300 | .000 | .300 |
| | | | | | | ( 1.364) |
| **** TOTALS **** | 17 | 11 | 28 | 7.608 | 31.503 | 39.111 |
| | | | | ( 34.586) | ( 143.213) | ( 177.799) |

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$ :THOUSANDS OF CUBIC METRES

CONVERSION FACTOR

1 MIGD = 4.546 $1000M^3$

NORTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| ATIKOKAN *MIN* 110001523 | | | | | | | | |
| TOWNSHIP | 4500 | | B O D: 37.00 | 140.90 | B O D: 3.00 | 11.42 | 12 | |
| ATIKOKAN WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .898) | | ( .838 ) | S S : 67.00 | 255.14 | S S : 17.20 | 65.50 | 12 | 2 |
| 1000 CUBIC METRES: 4.082 | | 3.808 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 2.40 | 9.14 | T.PHOS: 0.71 | 2.70 | 12 | 2 |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | |
| | | | WATERCOURSE: ATIKOKAN RIVER | | | | | |
| | | | REMEDIAL MEASURE: COLLECTION SYSTEM UNDER STUDY | | | | | |
| ATWOOD (RAINY RIVER) *MIN* 110002292 | | | | | | | | |
| TOWNSHIP | 975 | | B O D: 66.00 | 66.86 | B O D: 10.90 | 11.04 | 7 | 1 |
| RAINY RIVER LAGOON | | | | | | | | |
| CAPACITY (MIGD): ( .218) | | ( .223 ) | S S : 124.00 | 125.61 | S S : 10.70 | 10.84 | 7 | |
| 1000 CUBIC METRES: .991 | | 1.013 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | T.PHOS: 3.70 | 3.75 | T.PHOS: 1.05 | 1.06 | 7 | |
| | | | WATERCOURSE: RAINY RIVER | | | | | |
| BAIRD (HADSEN) *MIN* 110002363 | | | | | | | | |
| TOWNSHIP | 300 | | B O D: 0.00 | | B O D: 0.00 | | | |
| HADSEN COMMUNITY WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .060) | | ( ) | S S : 0.00 | | S S : 0.00 | | | |
| 1000 CUBIC METRES: .273 | | | | | | | | |
| COMMUNAL SEPTIC TANK | | | T.PHOS: 0.00 | | T.PHOS: 0.00 | | | |
| | | | WATERCOURSE: RED LAKE | | | | | |

NORTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| BEARDMORE *MIN* | | | | NO 1985 DISCHARGE | | | | | |
| 110002309 | | | | | | | | | |
| TOWNSHIP | 625 | | | B O D: 96.00 | 25.06 | B O D: 0.00 | 0.00 | | |
| BEARDMORE LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .300) | ( | .057 ) | S S : 116.00 | 30.28 | S S : 0.00 | 0.00 | | |
| 1000 CUBIC METRES: | 1.364 | | .261 | | | | | | |
| EXFILTRATION LAGOON | | | | T.PHOS: 4.70 | 1.23 | T.PHOS: 0.00 | 0.00 | | |
| | | | | WATERCOURSE: NO DISC.TO SURFACE WATER | | | | | |
| CARAMAT ** | | | | NO 1985 DISCHARGE | | | | | |
| 120003085 | | | | | | | | | |
| UNORGANIZED MUNICIPALITY | 150 | | | B O D: 0.00 | | B O D: 0.00 | | | |
| CARAMAT MPCP | | | | | | | | | |
| CAPACITY (MIGD): | ( .013) | ( | ) | S S : 0.00 | | S S : 0.00 | | | |
| 1000 CUBIC METRES: | .059 | | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 0.00 | | T.PHOS: 0.00 | | | |
| EXFILTRATION | | | | | | | | | |
| | | | | WATERCOURSE: NO DISC.TO SURFACE WATER | | | | | |
| DRYDEN | | | | | | | | | |
| 120000248 | | | | | | | | | |
| TOWN | 0 | | | B O D: 109.00 | 465.98 | B O D: 9.60 | 41.04 | 10 | |
| DRYDEN MPCP | | | | | | | | | |
| CAPACITY (MIGD): | ( 1.500) | ( | .941 ) | S S : 191.00 | 816.53 | S S : 12.60 | 53.87 | 10 | 1 |
| 1000 CUBIC METRES: | 6.819 | | 4.275 | | | | | | |
| CONTACT STABILIZATION | | | | T.PHOS: 4.70 | 20.09 | T.PHOS: 0.97 | 4.15 | 10 | |
| | | | | WATERCOURSE: WABIGOON RIVER | | | | | |

NORTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|
| EAR FALLS *MIN* | | | | | | | | | |
| 110001006 | | | | | | | | | |
| TOWNSHIP | 1750 | | | B O D: 62.00 | 80.97 | B O D: 3.90 | 5.09 | 12 | |
| EAR FALLS WPCP | | | | | | | | | |
| CAPACITY (MIGD): | ( .630) | ( | .287 ) | S S : 128.00 | 167.17 | S S : 13.10 | 17.11 | 12 | 1 |
| 1000 CUBIC METRES: | 2.864 | | 1.306 | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: 3.50 | 4.57 | T.PHOS: 1.16 | 1.51 | 12 | |
| CONVERTIBLE OPERATING MODE | | | | | | | | | |
| | | | | WATERCOURSE: ENGLISH RIVER | | | | | |
| EMO *MIN* | | | | | | | | | |
| 110001015 | | | | | | | | | |
| TOWNSHIP | 730 | | | B O D: 73.00 | 38.69 | B O D: 12.90 | 6.84 | 3 | |
| EMO LAGOON | | | | | | | | | |
| CAPACITY (MIGD): | ( .060) | ( | .117 ) | S S : 126.00 | 66.78 | S S : 26.60 | 14.10 | 3 | 1 |
| 1000 CUBIC METRES: | .273 | | .530 | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | T.PHOS: 4.32 | 2.29 | T.PHOS: 1.26 | 0.67 | 3 | |
| | | | | WATERCOURSE: RAINY RIVER | | | | | |
| | | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | |
| FORT FRANCES *MIN* | | | | | | | | | |
| 110000258 | | | | | | | | | |
| TOWN | 8750 | | | B O D: 55.00 | 480.59 | B O D: 33.20 | 290.10 | 12 | |
| FORT FRANCES WPCP | | | | | | | | | |
| CAPACITY (MIGD): | ( 2.000) | ( | 1.922 ) | S S : 123.00 | 1,074.77 | S S : 62.20 | 543.50 | 12 | 5 |
| 1000 CUBIC METRES: | 9.092 | | 8.738 | | | | | | |
| PRIMARY | | | | T.PHOS: 2.60 | 22.72 | T.PHOS: 2.09 | 18.26 | 12 | |
| | | | | WATERCOURSE: RAINY RIVER | | | | | |

NORTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| GERALDTON *MINN* 110001649 | | | | | | | | |
| TOWN | 2901 | | B O D: 87.00 | 187.66 | B O D: 4.40 | 9.49 | 12 | |
| GERALDTON WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .399) | | ( .475 ) | S S : 145.00 | 312.77 | S S : 6.90 | 14.88 | 12 | |
| 1000 CUBIC METRES: 1.814 | | 2.157 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 4.20 | 9.06 | T.PHOS: 1.63 | 3.52 | 12 | |
| | | | WATERCOURSE: LAKE KENOGAMISIS | | | | | |
| GOLDEN (BALMERTOWN) *MINN* 110003291 | | | | | | | | |
| TOWNSHIP | 1300 | | B O D: 79.00 | 120.95 | B O D: 4.20 | 6.43 | 12 | |
| BALMERTOWN WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .269) | | ( .337 ) | S S : 101.00 | 154.63 | S S : 8.60 | 13.17 | 12 | |
| 1000 CUBIC METRES: 1.223 | | 1.531 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 4.40 | 6.74 | T.PHOS: 2.25 | 3.44 | 12 | |
| | | | WATERCOURSE: BALMER CREEK | | | | | |
| GOLDEN (BALMERTOWN) 120000195 | | | | | | | | |
| TOWNSHIP | 750 | | B O D: 0.00 | | B O D: 0.00 | | | |
| COCHENOVR COMMUNITY WPCP PHASED OUT 1986 | | | | | | | | |
| CAPACITY (MIGD): ( .030) | | ( ) | S S : 0.00 | | S S : 0.00 | | | |
| 1000 CUBIC METRES: .136 | | | | | | | | |
| COMMUNAL SEPTIC TANK | | | T.PHOS: 0.00 | | T.PHOS: 0.00 | | | |
| | | | WATERCOURSE: RED LAKE | | | | | |

NORTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| GOLDEN (COCHENOUR) *MIN* 110002504 | | | | | | | | | | |
| TOWNSHIP | 800 | | | | | | | | | |
| COCHENOUR LAGOON | | | | | | | | | | |
| CAPACITY (MIGD): | ( .169) | ( .053 ) | | | | | | | | |
| 1000 CUBIC METRES: | .768 | .242 | | | | | | | | |
| CONVENTIONAL LAGOON SEASONAL | | | | | | | | | | |
| | | | | NO 1985 DISCHARGE | | | | | | |
| IGNACE *MIN* 110001355 | | | | | | | | | | |
| TOWNSHIP | 2285 | | BOD: | 66.00 | 115.90 | BOD: | 2.50 | 4.39 | 12 | |
| IGNACE WPCP | | | SS: | 105.00 | 184.38 | SS: | 12.00 | 21.07 | 12 | 1 |
| CAPACITY (MIGD): | ( .549) | ( .386 ) | T.PHOS: | 4.00 | 7.02 | T.PHOS: | 0.67 | 1.18 | 12 | 1 |
| 1000 CUBIC METRES: | 2.496 | 1.756 | | | | | | | | |
| EXTENDED AERATION | | | | | | | | | | |
| PHOSPHORUS REMOVAL-CONTINUOUS | | | | | | | | | | |
| | | | WATERCOURSE: AGIMAC CREEK | | | | | | | |
| KENORA 120000239 | | | | | | | | | | |
| TOWN | 12000 | | BOD: | 87.00 | 645.38 | BOD: | 15.90 | 154.50 | 12 | 3 |
| KENORA WPCP | | | SS: | 182.00 | 1,768.49 | SS: | 13.20 | 128.26 | 12 | |
| CAPACITY (MIGD): | ( 4.000) | ( 2.138 ) | T.PHOS: | 4.80 | 46.64 | T.PHOS: | 0.59 | 5.73 | 12 | |
| 1000 CUBIC METRES: | 18.184 | 9.717 | | | | | | | | |
| CONTACT STABILIZATION | | | | | | | | | | |
| | | | WATERCOURSE: WINNIPEG RIVER | | | | | | | |

NORTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | INFLUENT<br>ANNUAL AVERAGE<br>LOADING KG/DAY | EFFLUENT<br>ANNUAL AVERAGE<br>CONC. (MG/L) | EFFLUENT<br>ANNUAL AVERAGE<br>LOADING KG/DAY | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | COMPLIANCE<br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| LONGLAC *MIN* | | | | | | | | |
| 110001042 | | | | | | | | |
| TOWN | 2900 | | B O D: 77.00 | 177.02 | B O D: 11.00 | 25.29 | 12 | 1 |
| LONGLAC WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .515) | | ( .506 ) | S S : 169.00 | 388.53 | S S : 20.60 | 47.36 | 12 | 2 |
| 1000 CUBIC METRES: 2.341 | | 2.299 | | | | | | |
| CONTACT STABILIZATION | | | T.PHOS: 4.40 | 10.12 | T.PHOS: 0.98 | 2.25 | 12 | |
| | | | | | | | | |
| | | | WATERCOURSE: MAKING GROUND RIVER | | | | | |
| MANITOUWADGE | | | | | | | | |
| 120000480 | | | | | | | | |
| TOWNSHIP | 3084 | | B O D: 29.00 | 85.55 | B O D: 10.20 | 30.09 | 6 | 2 |
| MANITOUWADGE WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .400) | | ( .649 ) | S S : 55.00 | 162.25 | S S : 14.80 | 43.66 | 6 | 1 |
| 1000 CUBIC METRES: 1.818 | | 2.950 | | | | | | |
| COMMUNAL SEPTIC TANK | | | T.PHOS: 1.90 | 5.61 | T.PHOS: 1.48 | 4.37 | 6 | |
| | | | | | | | | |
| | | | WATERCOURSE: BOGGY LAKE | | | | | |
| MARATHON *MIN* | | | | | | | | |
| 120000471 | | | | | | | | |
| TOWNSHIP | 2317 | | B O D: 96.00 | 144.38 | B O D: 2.10 | 3.16 | 12 | |
| MARATHON WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .439) | | ( .331 ) | S S : 154.00 | 231.62 | S S : 3.60 | 5.41 | 12 | |
| 1000 CUBIC METRES: 1.996 | | 1.504 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 5.50 | 8.27 | T.PHOS: 3.03 | 4.56 | 12 | |
| | | | | | | | | |
| | | | WATERCOURSE: LAKE SUPERIOR | | | | | |

NORTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| NAKINA<br>110003308 | | | | | | | | | | |
| TOWNSHIP | 976 | | | | | | | | | |
| NAKINA MPCP | | | | B O D: | 80.00 | 37.44 | B O D: | 2.90 | 1.36 | 12 |
| CAPACITY (MIGD): | ( .110) | ( | .103 ) | S S : | 137.00 | 64.12 | S S : | 6.80 | 4.12 | 12 |
| 1000 CUBIC METRES: | .500 | | .468 | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: | 4.30 | 2.01 | T.PHOS: | 1.63 | 0.76 | 12 |
| CONVERTIBLE OPERATING MODE | | | | | | | | | | |
| | | | | WATERCOURSE: BALKAN CREEK | | | | | | |
| NIPIGON<br>120000514 | | | | | | | | | | |
| TOWNSHIP | 2180 | | | | | | | | | |
| NIPIGON MPCP | | | | B O D: | 84.00 | 209.08 | B O D: | .8 | 12 | |
| CAPACITY (MIGD): | ( .360) | ( | .548 ) | S S : | 121.00 | 301.17 | S S : | | | |
| 1000 CUBIC METRES: | 1.637 | | 2.489 | | | | | | | |
| PRIMARY | | | | T.PHOS: | 4.90 | 12.20 | T.PHOS: | | | |
| | | | | WATERCOURSE: NIPIGON R | | | | | | |
| PICKLE LAKE<br>110002185 | | | | | | | | | | |
| TOWNSHIP | 325 | | | | | | | | | |
| PICKLE LAKE MPCP | | | | B O D: | 16.00 | 5.26 | B O D: | | | |
| CAPACITY (MIGD): | ( .200) | ( | .072 ) | S S : | 33.00 | 10.86 | S S : | | | |
| 1000 CUBIC METRES: | .909 | | .329 | | | | | | | |
| EXTENDED AERATION | | | | T.PHOS: | 0.80 | 0.26 | T.PHOS: | | | |
| | | | | WATERCOURSE: KAMINOGAN | | | | | | |

NORTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT<br>ANNUAL AVERAGE | | EFFLUENT<br>ANNUAL AVERAGE | | COMPLIANCE<br>MONTHS OF EFFLUENT | <br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| | | | CONC. (MG/L) | LOADING KG/DAY | CONC. (MG/L) | LOADING KG/DAY | DATA | |
| RED LAKE *MIN* 110001131 | | | | | | | | |
| TOWNSHIP | 1945 | | B O D: 56.00 | 107.63 | B O D: 4.50 | 8.65 | 12 | |
| RED LAKE WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .542) | | ( .423 ) | S S : 72.00 | 138.38 | S S : 8.30 | 15.95 | 12 | |
| 1000 CUBIC METRES: 2.464 | | 1.922 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 3.00 | 5.77 | T.PHOS: 1.36 | 2.61 | 12 | |
| | | | WATERCOURSE: HONEY BAY | | | | | |
| RED ROCK 120001817 | | | | | | | | |
| TOWNSHIP | 1150 | | B O D: 74.00 | 58.61 | B O D: 39.40 | 31.20 | 12 | 2 |
| RED ROCK WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .280) | | ( .174 ) | S S : 158.00 | 125.14 | S S : 33.70 | 26.69 | 12 | |
| 1000 CUBIC METRES: 1.273 | | .792 | | | | | | |
| PRIMARY | | | T.PHOS: 4.10 | 3.25 | T.PHOS: 2.85 | 2.26 | 12 | |
| | | | WATERCOURSE: NIPIGON BAY | | | | | |
| SCHREIBER *MIN* 110002112 | | | | | | | | |
| TOWNSHIP | 1937 | | B O D: 105.00 | 88.94 | B O D: 20.40 | 17.28 | 12 | 3 |
| SCHREIBER WPCP | | | | | | | | |
| CAPACITY (MIGD): ( .250) | | ( .186 ) | S S : 129.00 | 109.26 | S S : 20.80 | 16.94 | 12 | 2 |
| 1000 CUBIC METRES: 1.137 | | .847 | | | | | | |
| EXTENDED AERATION | | | T.PHOS: 4.90 | 4.15 | T.PHOS: 2.22 | 1.88 | 12 | |
| CONTACT STABILIZATION | | | | | | | | |
| CONVERTIBLE OPERATING MODE | | | WATERCOURSE: CREEK TO L.SUPERIOR | | | | | |

NORTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE | | | EFFLUENT ANNUAL AVERAGE | | | COMPLIANCE<br>MONTHS OF EFFLUENT DATA | COMPLIANCE<br>MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CONC. (MG/L) | LOADING KG/DAY | | CONC. (MG/L) | LOADING KG/DAY | | |
| SIOUX LOOKOUT<br>120000220<br>TOWN<br>SIOUX LOOKOUT MPCP<br>CAPACITY (MIGD): ( .500)<br>1000 CUBIC METRES: 2.273<br>CONVENTIONAL ACTIVATED SLUDGE | 3006 | ( .448 )<br>2.036 | B O D: | 100.00 | 203.60 | B O D: | 10.30 | 20.97 | 12 | 1 |
| | | | S S : | 171.00 | 348.16 | S S : | 10.90 | 22.19 | 12 | 1 |
| | | | T.PHOS: | 4.90 | 9.98 | T.PHOS: | 3.15 | 6.41 | 12 | |
| | | | WATERCOURSE: PELICAN LAKE | | | | | | | |
| | | | REMEDIAL MEASURE: EXPANSION/UPGRADING | | | | | | | |
| TERRACE BAY (LAGOON) **<br>120000499<br>TOWNSHIP<br>TERRACE BAY LAGOON<br>CAPACITY (MIGD): ( .300)<br>1000 CUBIC METRES: 1.364<br>CONVENTIONAL LAGOON CONTINUOUS<br>EXFILTRATION LAGOON | 2000 | ( .029 )<br>.132 | NO 1985 DISCHARGE | | | | | | | |
| | | | B O D: | 104.00 | 13.73 | B O D: | 0.00 | 0.00 | | |
| | | | S S : | 134.00 | 17.69 | S S : | 0.00 | 0.00 | | |
| | | | T.PHOS: | 5.70 | 0.75 | T.PHOS: | 0.00 | 0.00 | | |
| | | | WATERCOURSE: NO DISC.TO SURFACE WATER | | | | | | | |
| TERRACE BAY (MPCP) **<br>120003030<br>TOWNSHIP<br>TERRACE BAY MPCP<br>CAPACITY (MIGD): ( .120)<br>1000 CUBIC METRES: .546<br>EXTENDED AERATION<br>EXFILTRATION LAGOON | 500 | ( .029 )<br>.132 | NO 1985 DISCHARGE | | | | | | | |
| | | | B O D: | 104.00 | 13.73 | B O D: | 0.00 | 0.00 | | |
| | | | S S : | 134.00 | 17.69 | S S : | 0.00 | 0.00 | | |
| | | | T.PHOS: | 5.70 | 0.75 | T.PHOS: | 0.00 | 0.00 | | |
| | | | WATERCOURSE: NO DISC.TO SURFACE WATER | | | | | | | |

NORTHWESTERN - REGION

1985 DATA - MUNICIPAL WASTEWATER TREATMENT FACILITIES

| MUNICIPALITY / WORKSNUMBER<br>EXISTING CAPACITY<br>AND TREATMENT | POP. SERVED | AVG DAY FLOW (MIGD)<br>1000 CUBIC METRES | INFLUENT ANNUAL AVERAGE CONC. (MG/L) | INFLUENT ANNUAL AVERAGE LOADING KG/DAY | EFFLUENT ANNUAL AVERAGE CONC. (MG/L) | EFFLUENT ANNUAL AVERAGE LOADING KG/DAY | COMPLIANCE MONTHS OF EFFLUENT DATA | COMPLIANCE MONTHS EXCEEDED |
|---|---|---|---|---|---|---|---|---|
| THUNDER BAY<br>120004805<br>CITY | 101527 | | B O D: 138.00 | 15,700.67 | B O D: 51.40 | 5,847.93 | 12 | 2 |
| THUNDER BAY WPCP<br>CAPACITY (MIGD): ( 24.000) | | ( 25.030 ) | S S : 209.00 | 23,778.56 | S S : 33.70 | 3,834.15 | 12 | |
| 1000 CUBIC METRES: 109.104 | | 113.773 | | | | | | |
| PRIMARY<br>PHOSPHORUS REMOVAL-CONTINUOUS | | | T.PHOS: 3.40 | 386.83 | T.PHOS: 1.01 | 114.91 | 12 | 4 |
| | | | WATERCOURSE: KAMINISTIKWIA RIVER | | | | | |